

Radio

# AMATEUR

Call Book Magazine

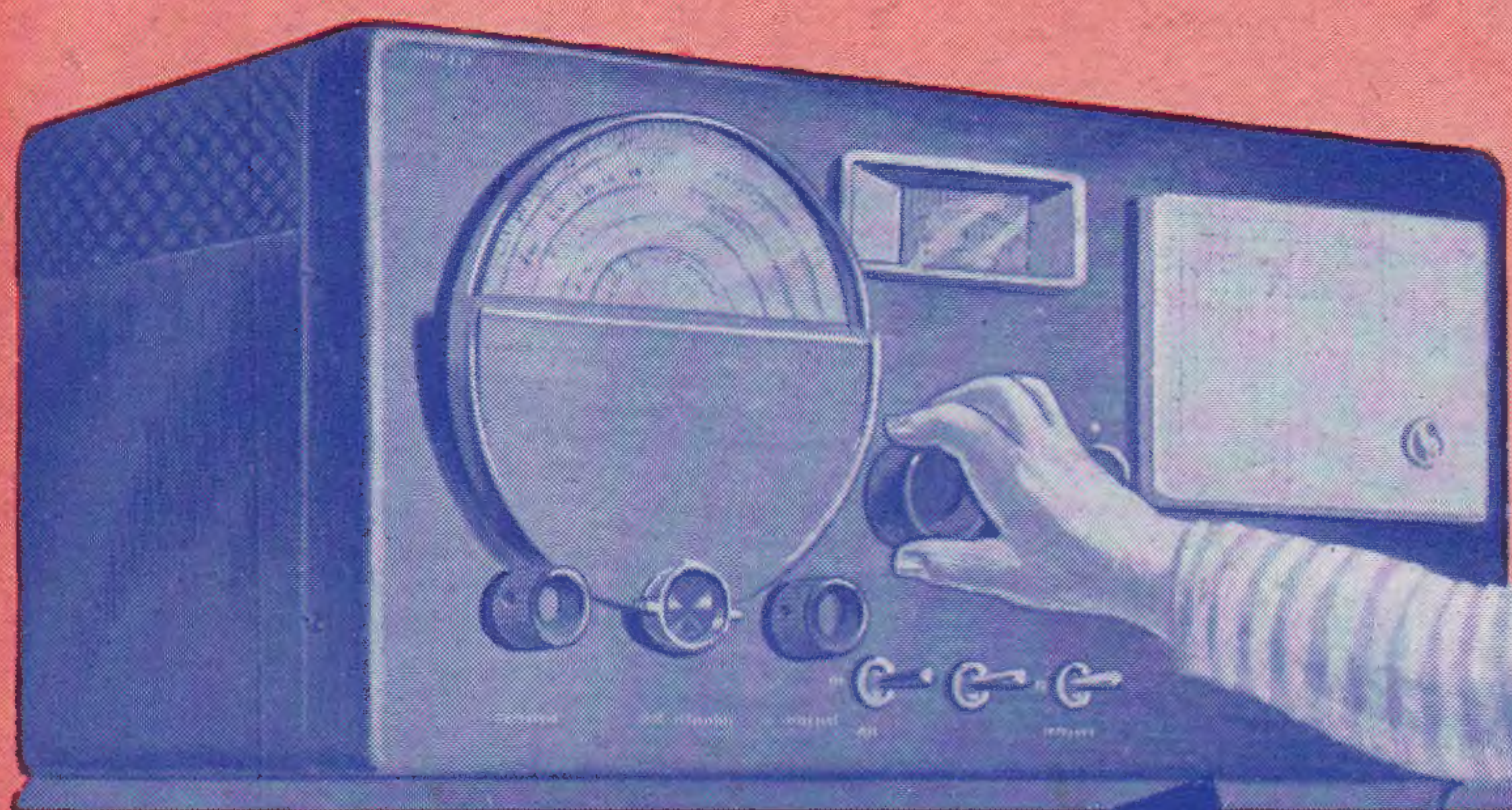
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**FALL, 1947**





what's the a-b-c  
of a cq?



First thing a ham learns—and none too soon—is that his equipment must be *dependable*. And the first capacitor name he learns for *proven* dependability is naturally . . . CORNELL-DUBILIER, the world's finest. No other make enjoys such wide confidence among hams from W1 to WØ . . . for *extra* performance, *absolute* reliability, and *dollar-for-dollar* savings. Old timers and novice CQ's, too, tell us why they wouldn't swap a good C-D capacitor for a bucket-full of bargain counter "specials" or "all-purpose-war-surplus." They know that every C-D they buy will fit perfectly, and give every penny of service they pay for.

So why take chances? Buy A Better Capacitor with C-D—to be safe, to be sure, to be ahead.

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WORLD'S LARGEST MANUFACTURER OF  
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1910



1947



TYPE 9

Mica types for power amplifiers and low-power transmitters. Best used for grid and plate blocking and r.f. by-pass functions.



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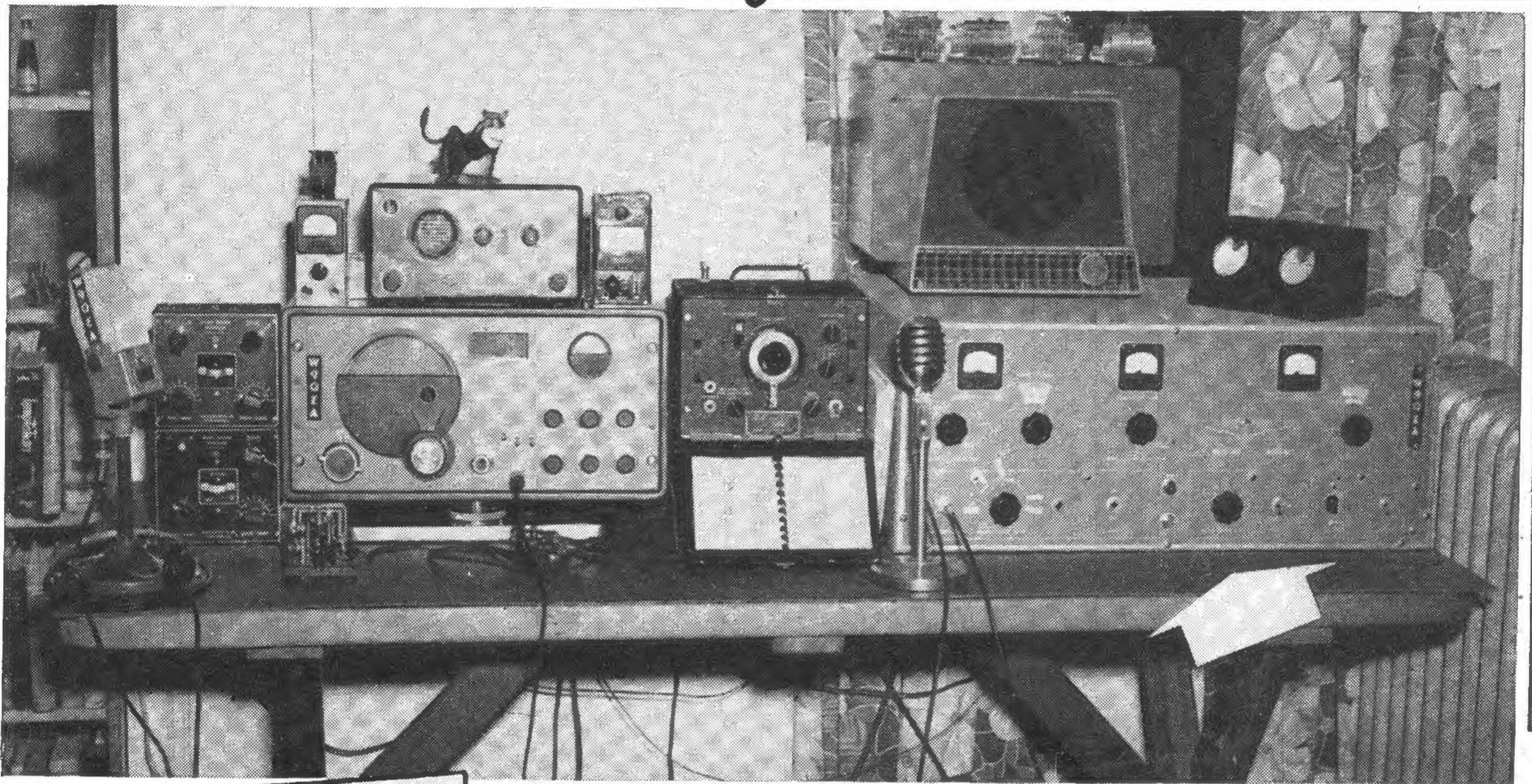
Write today for your FREE copy of Catalog 195A describing dependable C-D capacitors for every ham rig and budget. Send a penny postcard to: Cornell-Dubilier Electric Corp., Dept. JH, South Plainfield, N. J.



# Q5, R9+, T9X...

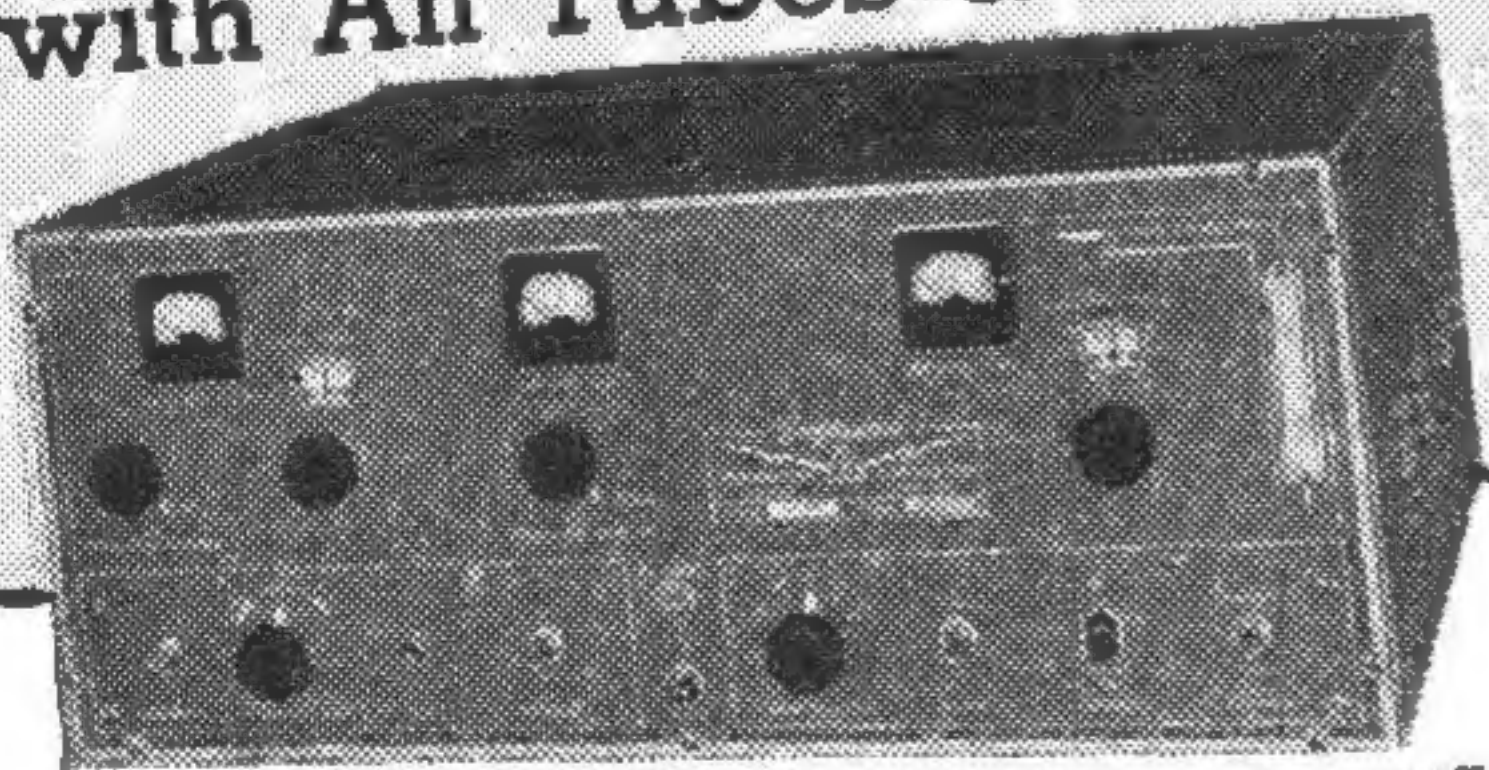
## THAT'S YOUR SCORE ON QSO'S

### WITH THE *Supreme* AF-100



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100 WATTS Output  
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with All Tubes & Coils



*"The World at your Call"*

Typical Supreme AF-100 installation—W9QEA rig of Karl Kopetzky, noted radio editor, writer and technician, Chicago. This compact, neat, desk-type transmitter fits anywhere yet does a giant job.

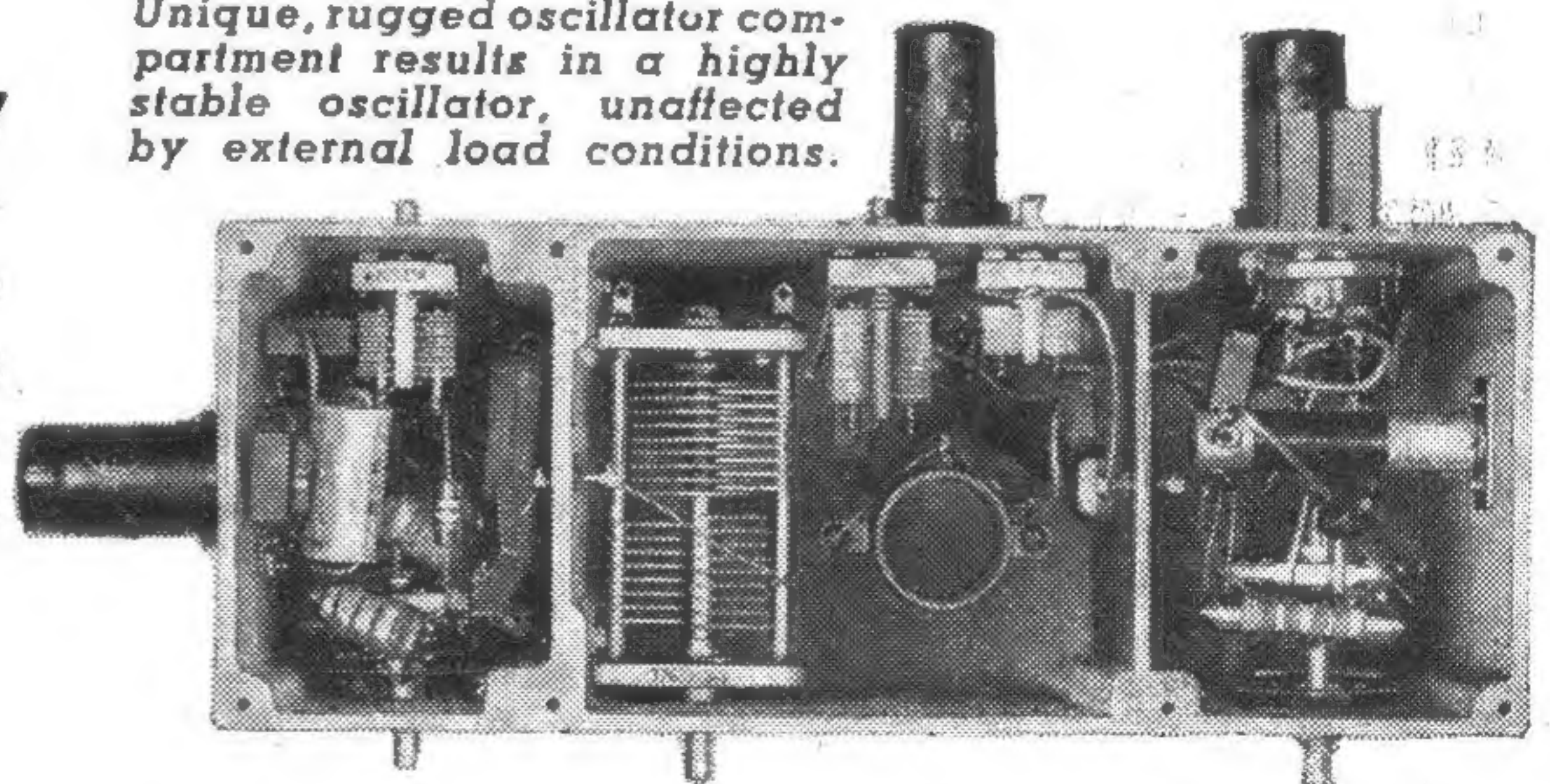


From all over the country—and from abroad as well—come enthusiastic reports on the performance of the Supreme AF-100 transmitter. Just listen to those Supremes now on the air! Listen to them on 10, 11, 15, 20, 40 and 80 meters! They pack a terrific wallop—one matched only by other transmitters of much higher power ratings. And because of the extreme versatility of the AF-100—ready for any frequency allocation changes that may come along—these Supremes will be on the air for many years to come. There's no better "buy" today. Make us prove it!

#### GET THE FACTS!

Ask your live-wire distributor to show you the Supreme AF-100. Study its many fine features at first hand. Ask for descriptive literature. Or write us.

Unique, rugged oscillator compartment results in a highly stable oscillator, unaffected by external load conditions.



# Supreme

## TRANSMITTER CORPORATION

Manufacturers of Communications Equipment  
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Export Division: The Radelma Company, 53 Park Place, N.Y.C.

*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



# RADIO AMATEUR CALL BOOK

## MAGAZINE

If you hold two separate radio amateur station licenses, be sure and advise us giving the call letters, address and the date that each license was issued. This information may prevent one of your calls from being deleted from the Call-book through error.

You may receive a questionnaire from us asking for all of your ex-calls and your full name, including your middle name. This information is desired for identification purposes only so that your call will not be confused with another radio amateur having the same last name.

The Editor.

VOLUME 25 NUMBER 3

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**RADIO AMATEUR CALL BOOK**  
(INCORPORATED)

608 South Dearborn Street  
CHICAGO 5, ILLINOIS, U.S.A.  
PHONE WABASH 1903



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RADIO AMATEUR CALL BOOK is published quarterly. Annual subscription, \$5.00 in the United States and Possessions. Canada and foreign countries, \$7.00. Single copies in U. S. and Possessions \$1.50, elsewhere \$2.00. Entered as second class matter February 9, 1946, at the Post Office at Chicago, Illinois, under the Act of March 3, 1879.

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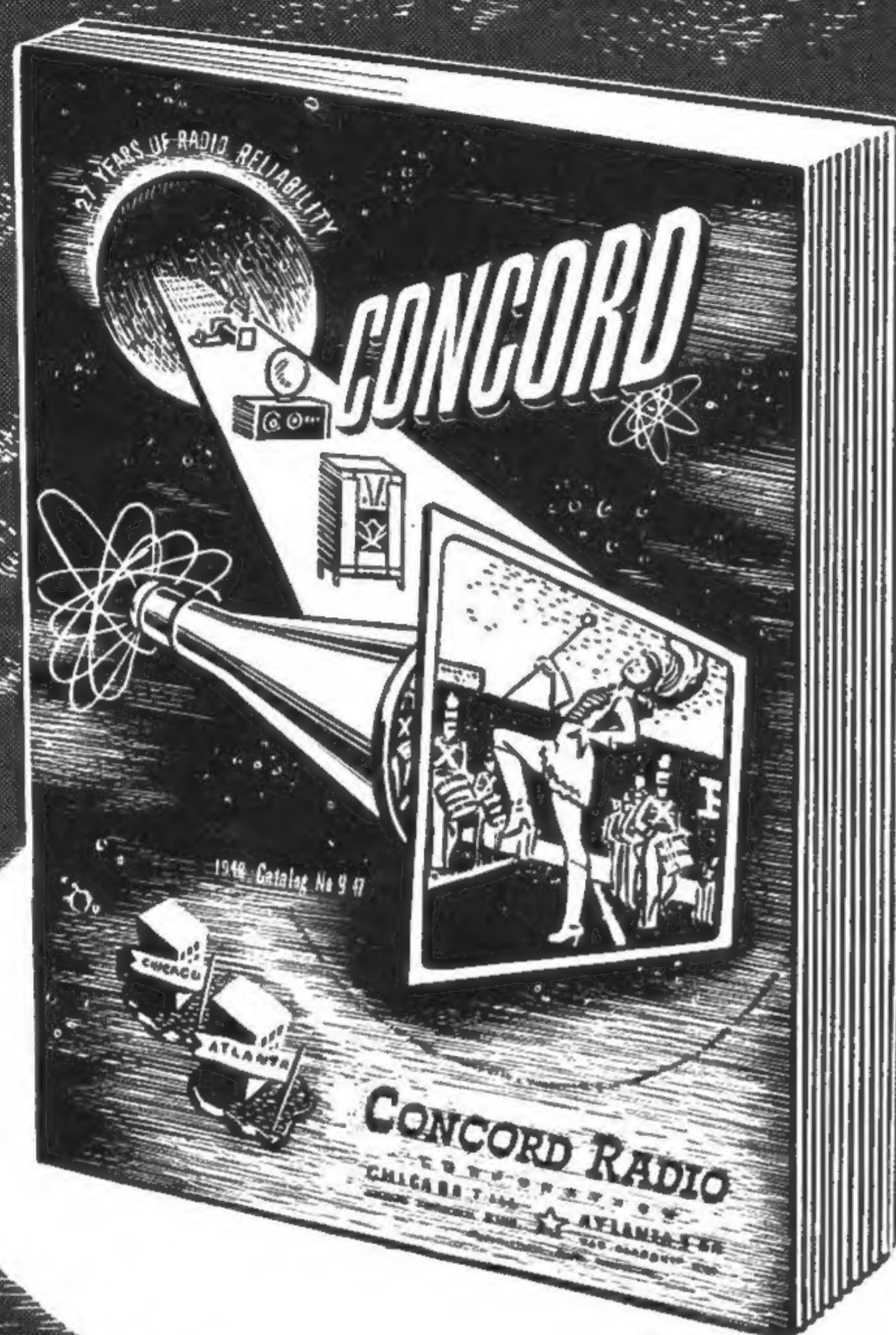


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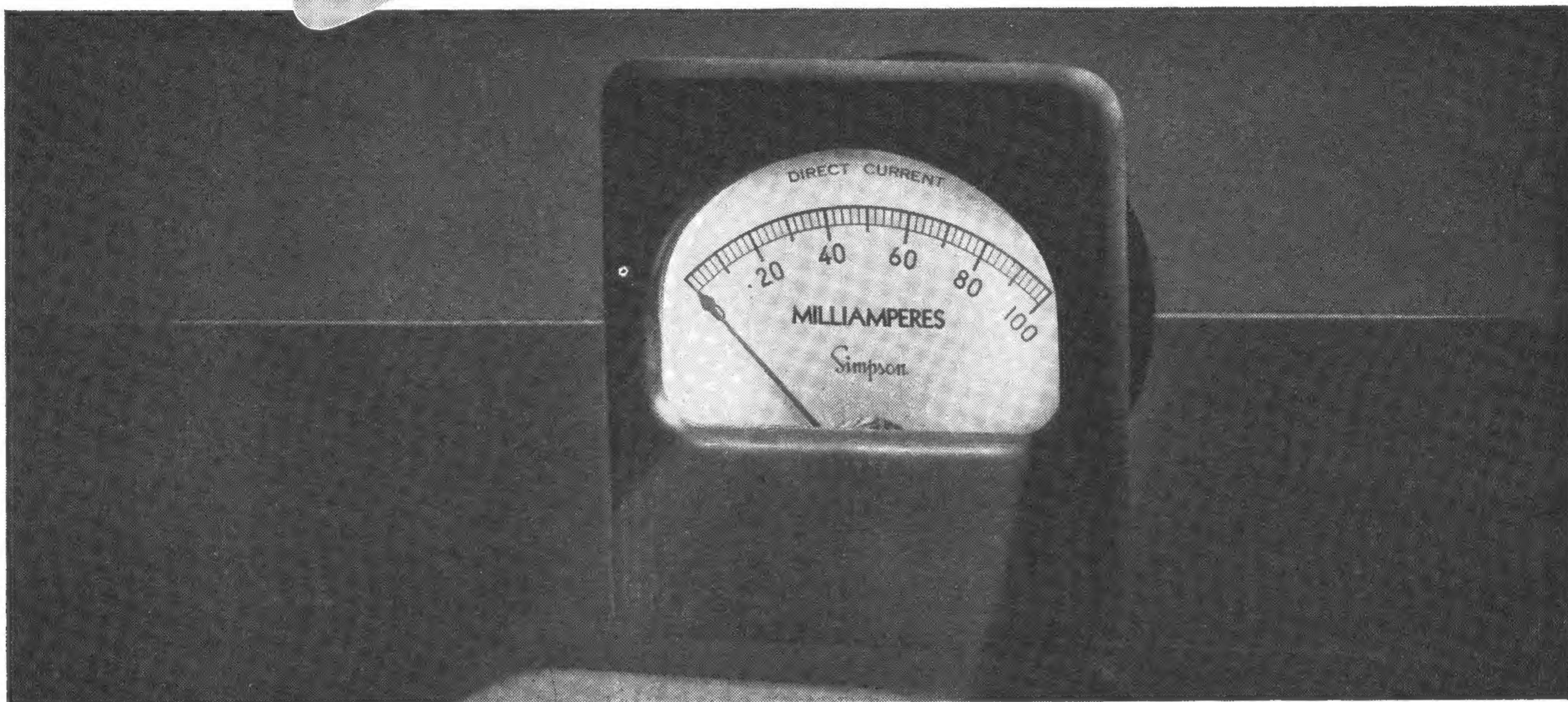
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This kind of meter illumination is important to you—and only in Simpson Meters can you get it because it is Simpson patented.

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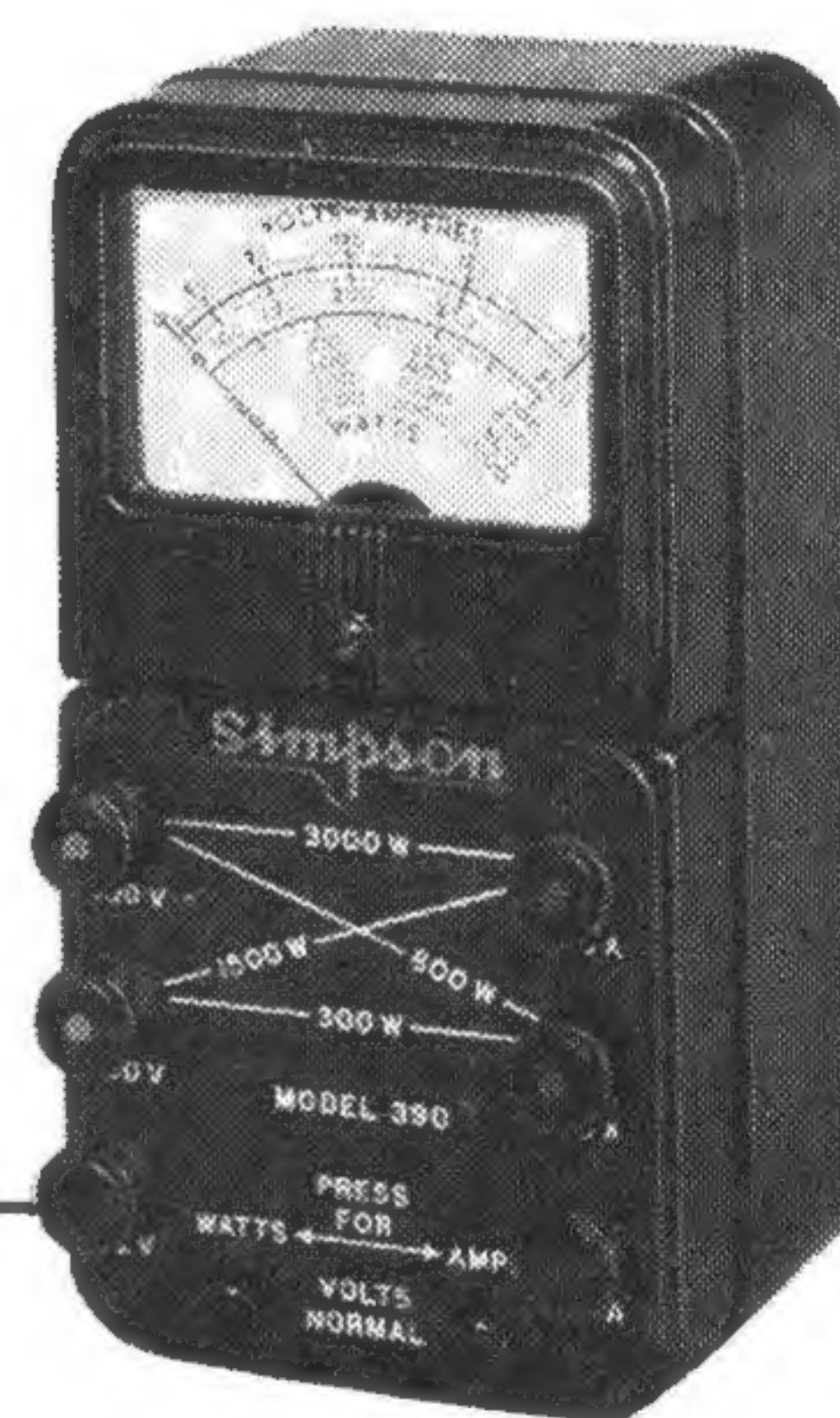
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3" Rectangular Case. Width, 3"; height, 3 1/8". Mounts in round hole. Body diameter, 2 3/4".  
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An HQ-129-X receiver, the choice of thousands of well-satisfied owners. And a Four-20 Transmitter with its companion Four-11 Modulator, a combination that is getting out all over the world. R9+ reports from China, Argen-

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*There will be no new Hammarlund receiver in the price range of the HQ-129-X until the spring of 1948 at the earliest.*



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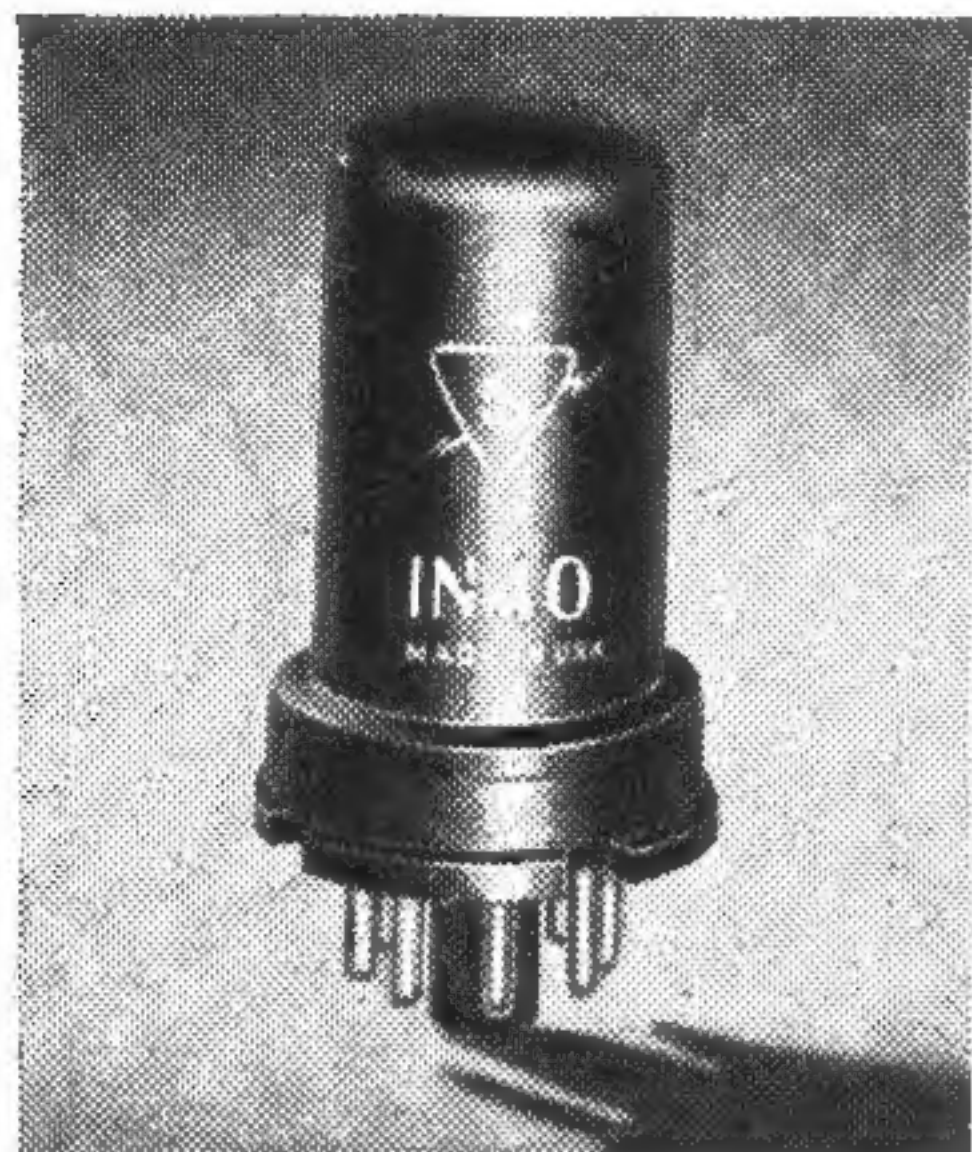
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# HAMS... HERE ARE SOME SYLVANIA PRODUCTS OF INTEREST TO YOU

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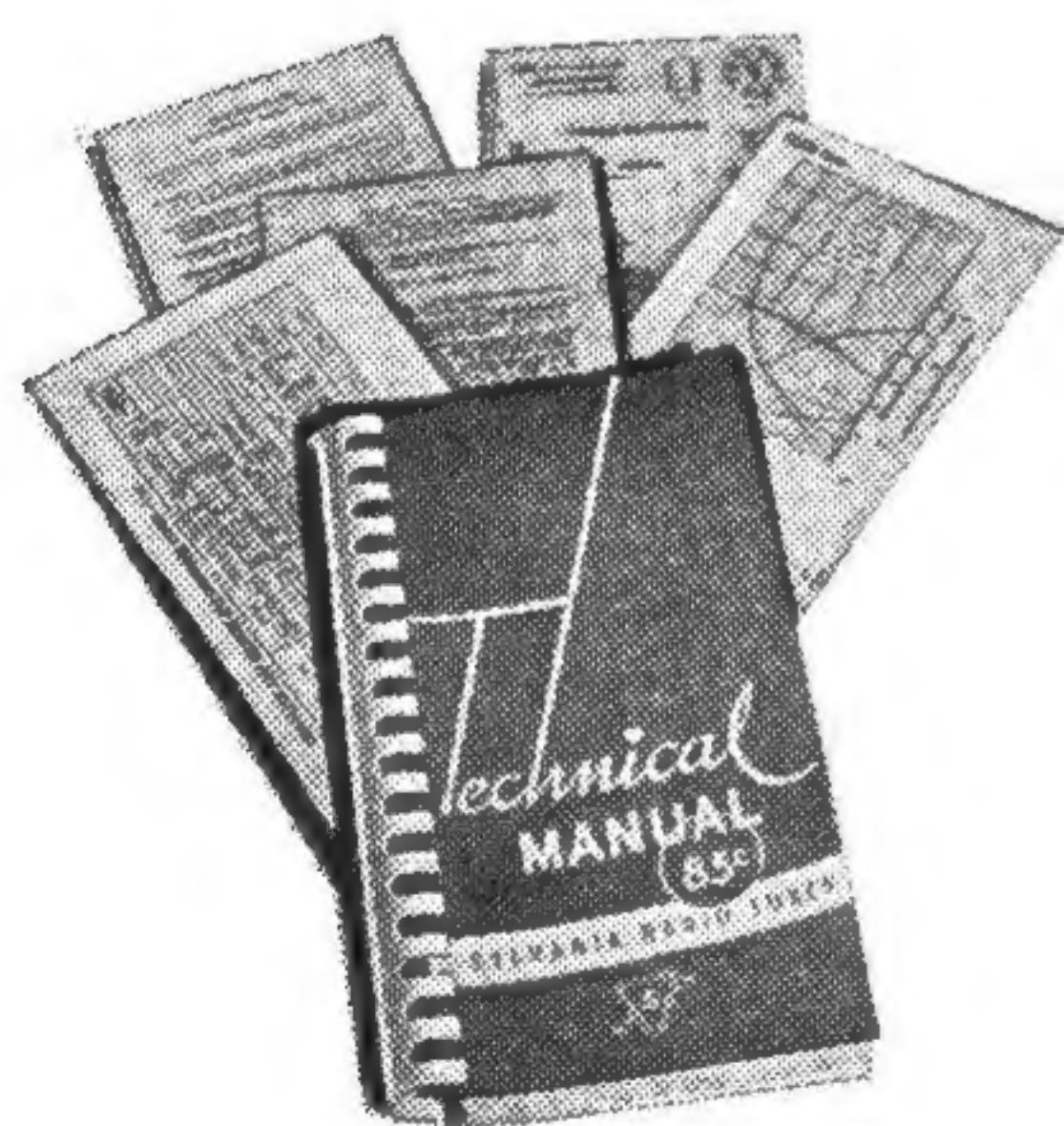
## GERMANIUM CRYSTALS



1. Small size.
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The 1N34 and 1N35 are ideal for use in lightweight and portable equipment. Fields of application include: field strength meters, detectors, clippers, discriminators, series noise limiters, demodulators, meter rectifiers.

## TECHNICAL MANUAL



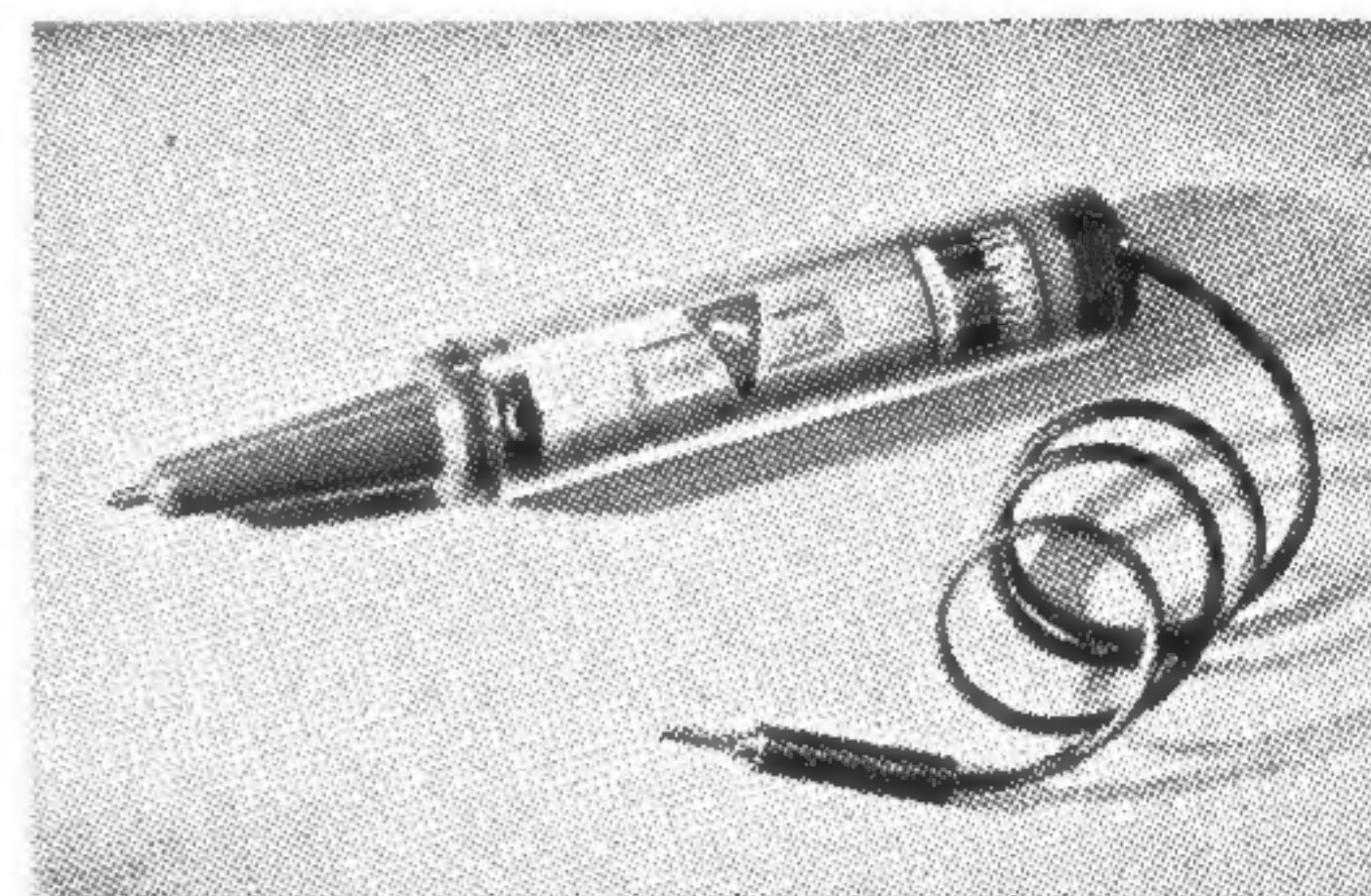
You'll surely welcome this handy reference manual, with its important features including: Fundamental Properties of Vacuum Tubes; The Characteristic Curves; General Tube and Circuit Information; Resistance Coupled Amplifier Data—and many more. We

urge you to get your copy right away—because we know you'll find this volume invaluable.

## TEST PROD OHMMETER

With the Sylvania Pocket Test Prod Ohmmeter in your tool kit, you can locate shorts or open circuits in a jiffy!

This handy-size meter gives direct readings of resistance from 600 to 10,000 ohms... reaches easily into hard-to-get-at corners and awkward spots. Completely self-contained—powered by 1.5 volt "penlight" battery. Only  $5\frac{3}{4}$ " long,  $\frac{7}{8}$ " diameter.



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(Model X-7018)



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See your Sylvania Distributor or order from Sylvania Electric Products Inc., 500 Fifth Ave., New York 18, N. Y.

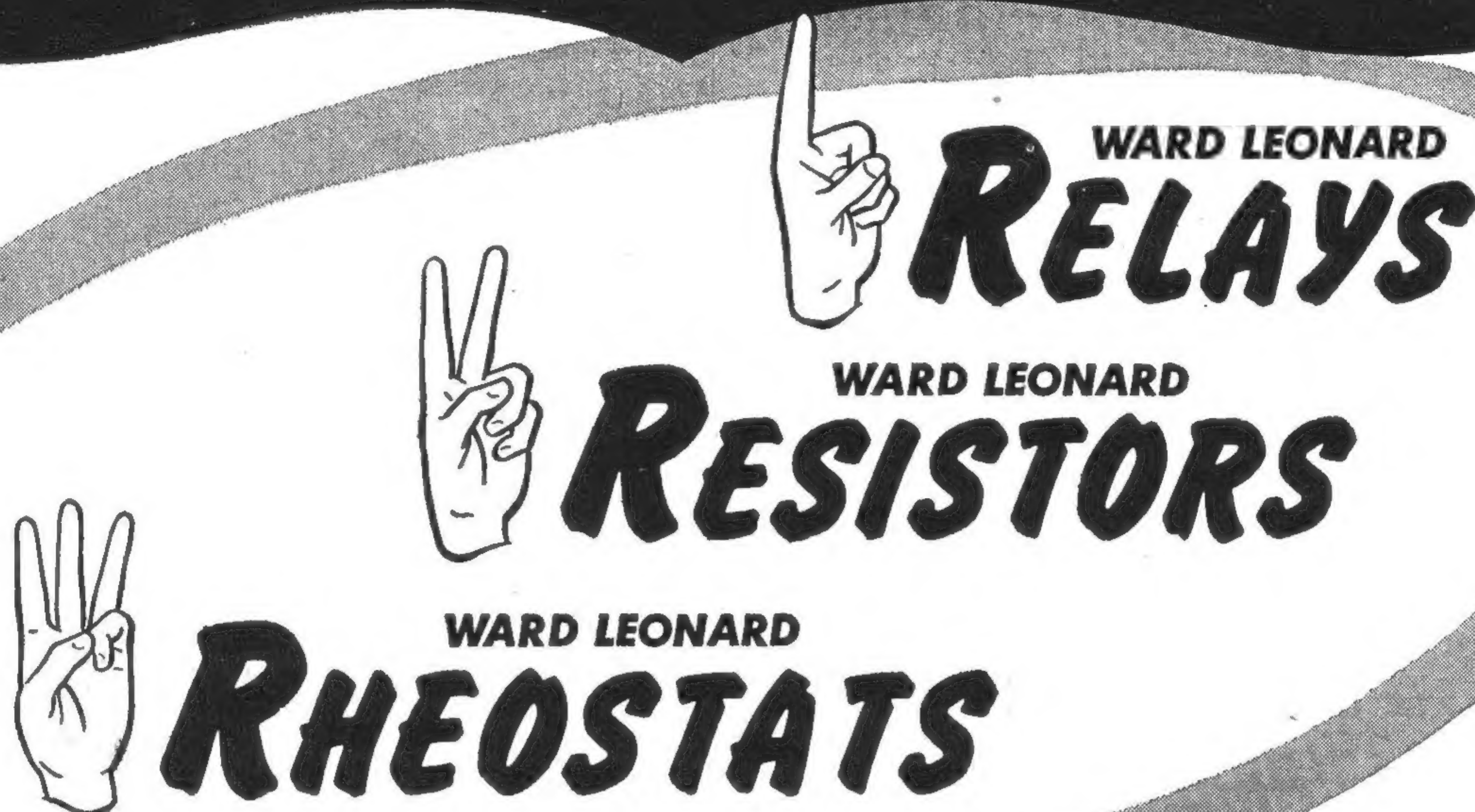
# SYLVANIA ELECTRIC

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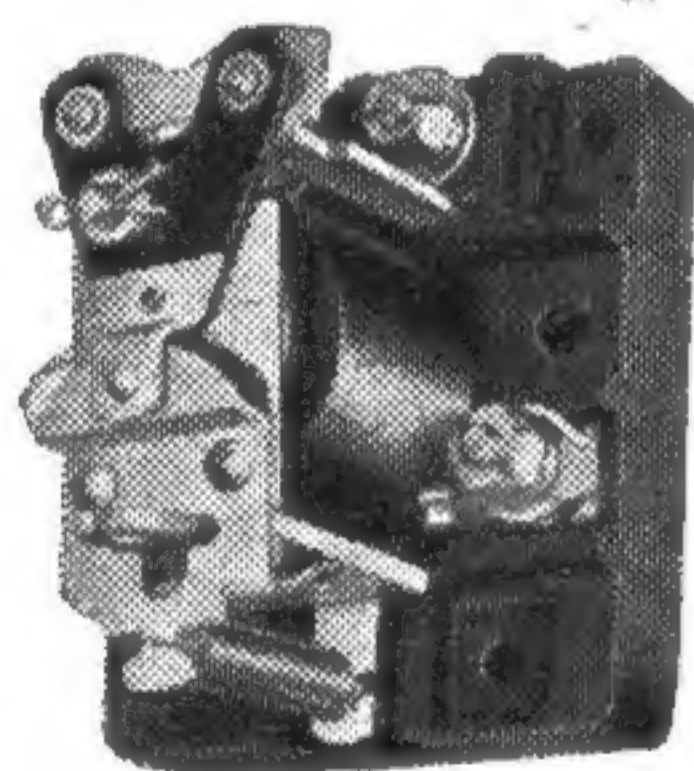
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# Ward Leonard 3 R's are Basic for CORRECT CURRENT CONTROL



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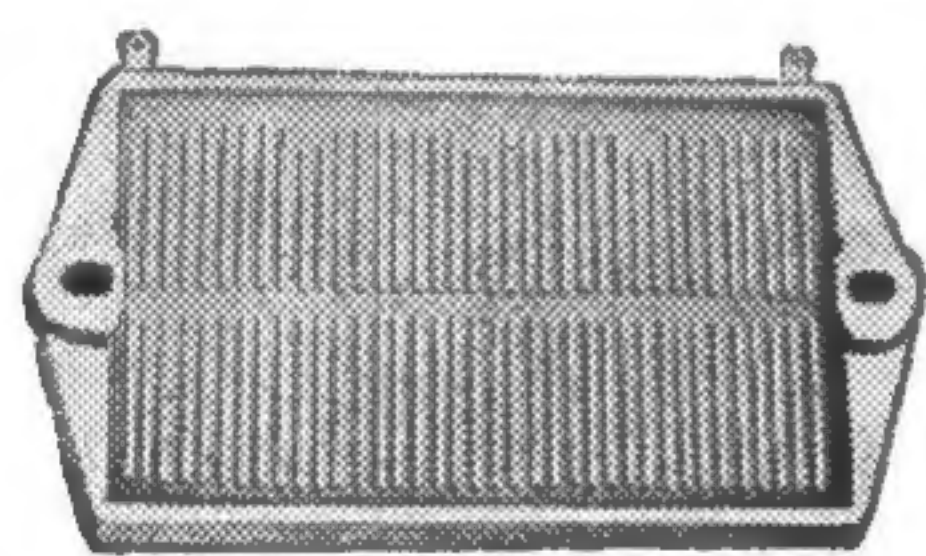


## AMATEUR RELAYS

Convenient circuit control and greater operating efficiency for ham rigs. Proper relays help reduce length of connecting leads . . . prevent unnecessary transfer of stray or transient currents to critical parts of transmitting circuit. Stock types: Antenna Change-Over, Antenna Grounding, Keying, Band Switching, RF Break-In, Safety, Overload, Underload, Latch-In, Remote Control, Sensitive, Time Delay.

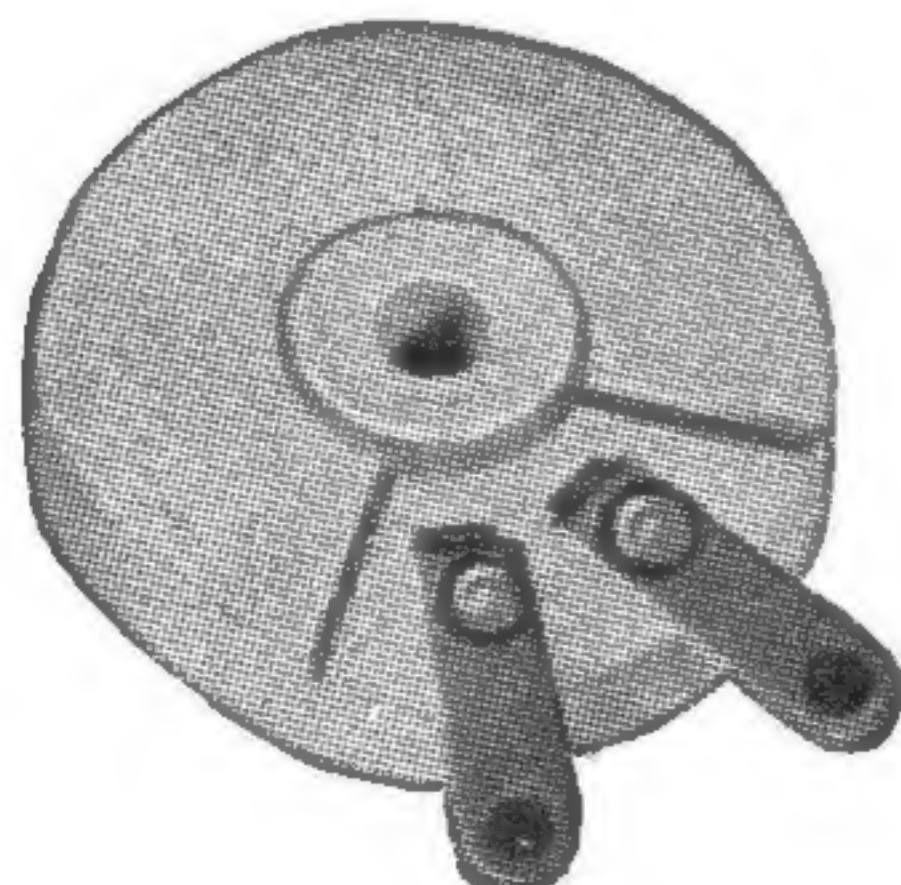
## AMATEUR TRANSMITTER CONTROL PANEL

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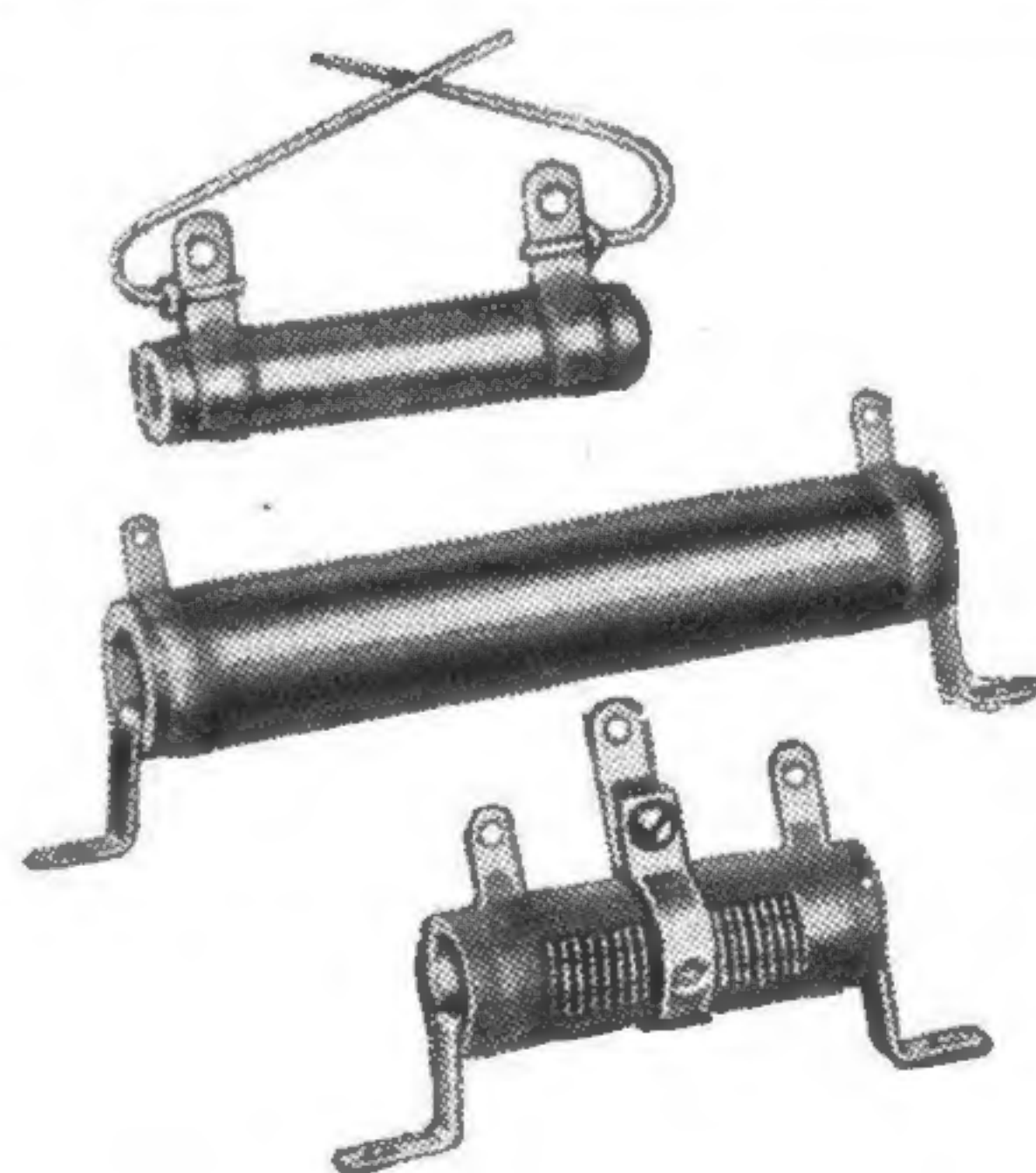
## VITROHM PLAQUE RESISTORS

Inductance at frequencies up to 1 MC and distributed capacitance up to 5 MC are negligible. Effective as terminating resistors for Rhombic antennas. In 20, 40 and 125 watt sizes, with a wide range of resistances.



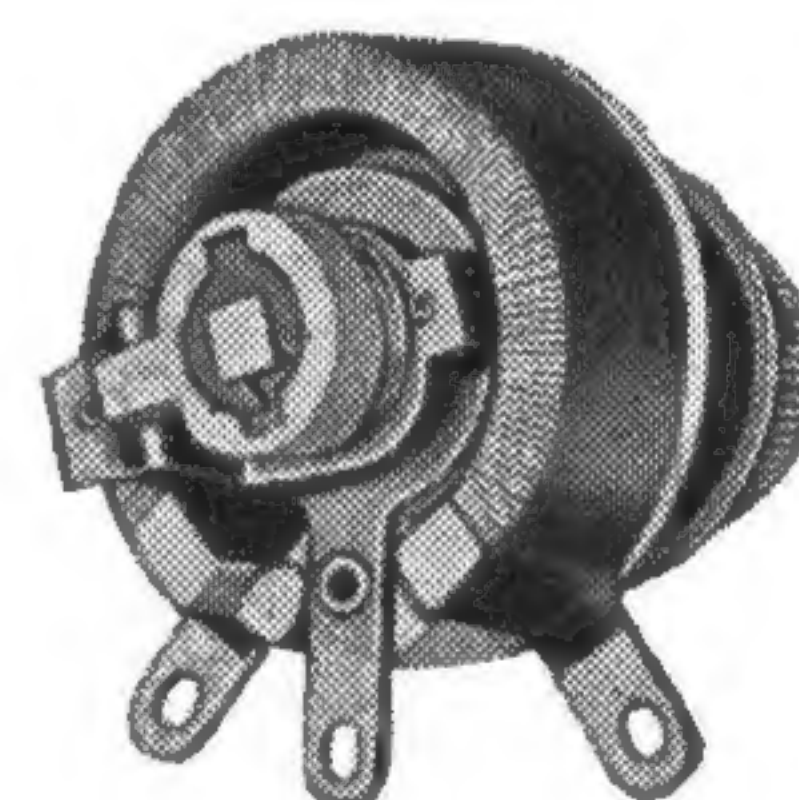
## DISCOHM RESISTORS

Compactly built . . . especially useful where space is limited. Low value of inductance and distributed capacitance. Easily mounted. Rated at 18 watts, in a wide range of resistances.



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Give extra performance for critical circuits. Fixed type available in 8 stock sizes from 5 to 200 watts. Adjustable type in 7 stock sizes from 10 to 200 watts. In wide range of resistances.



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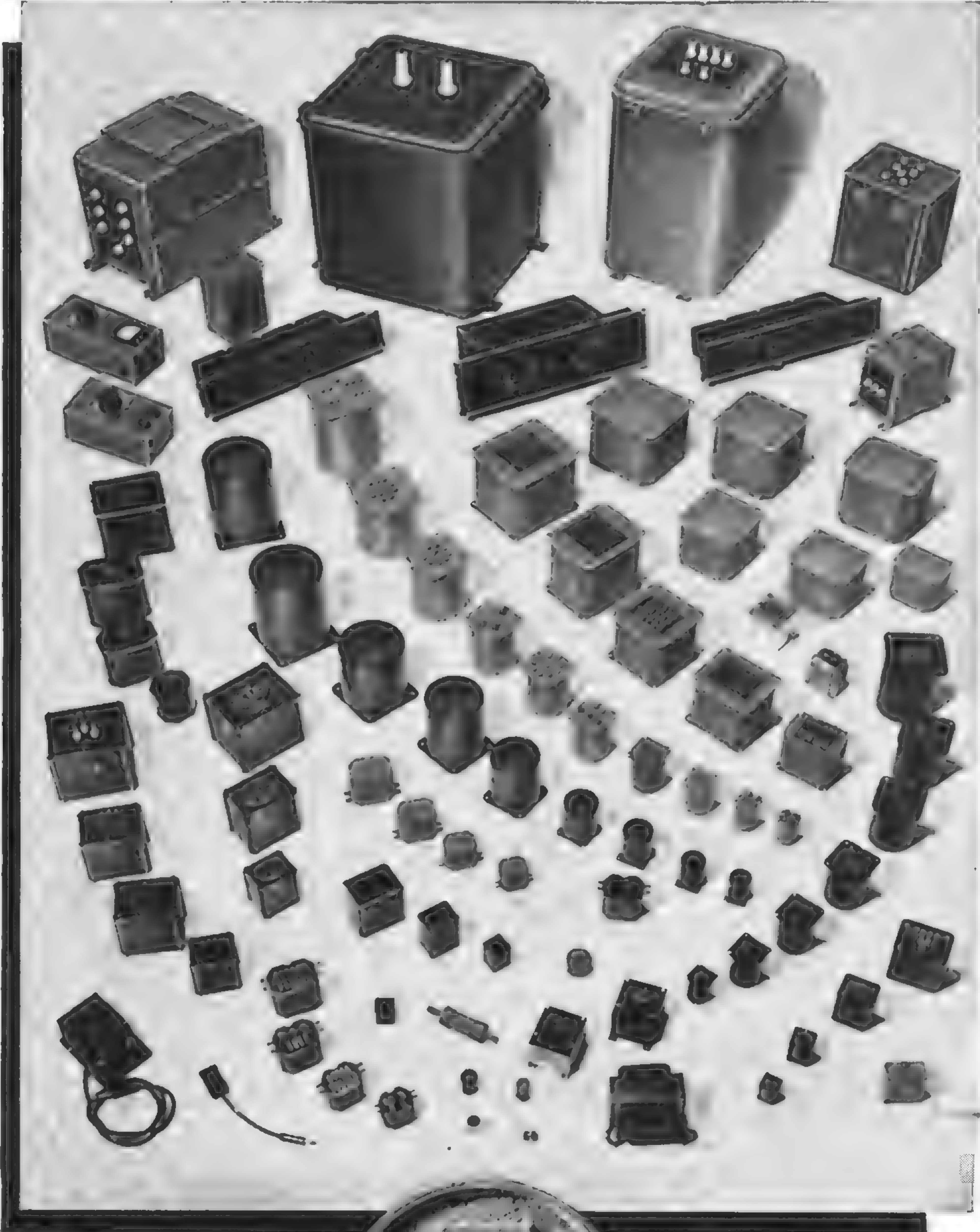
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Los Angeles 25, Calif.

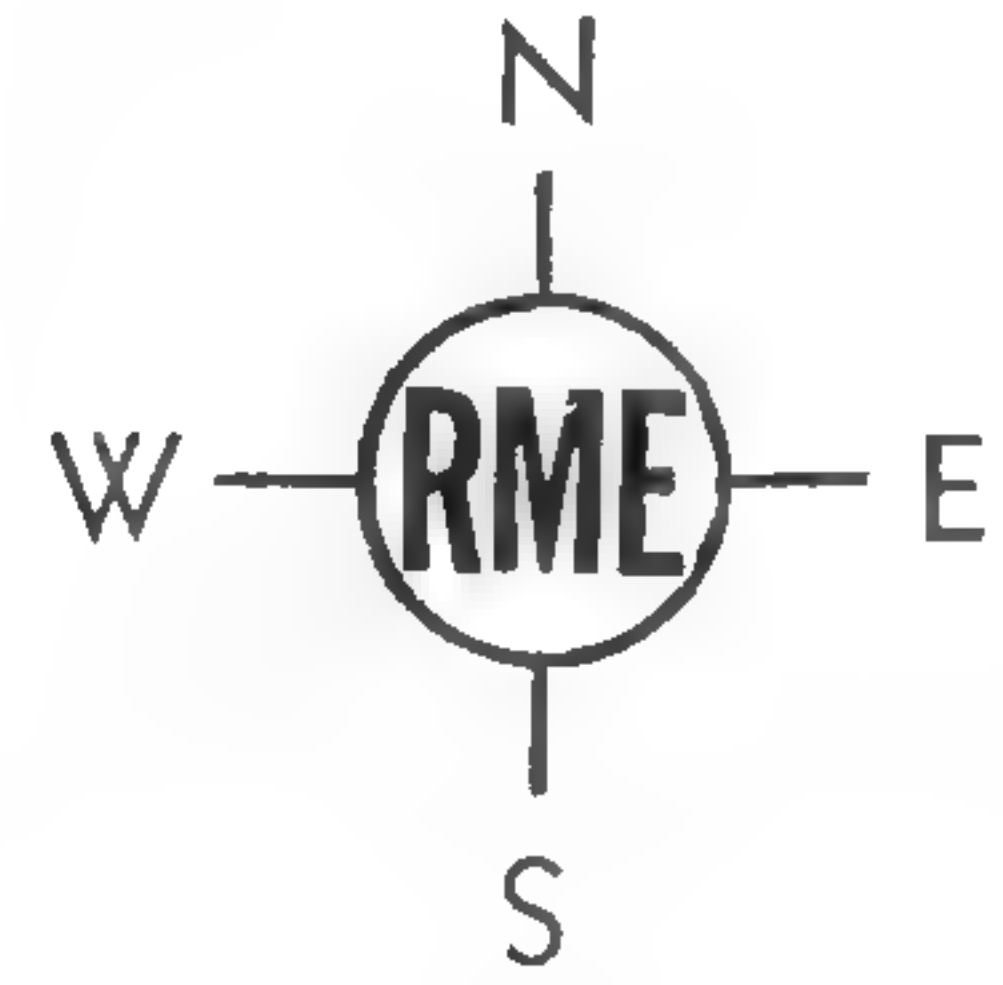
"WORLD'S LARGEST DISTRIBUTORS OF SHORT WAVE RECEIVERS"

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# FOR AMATEURS

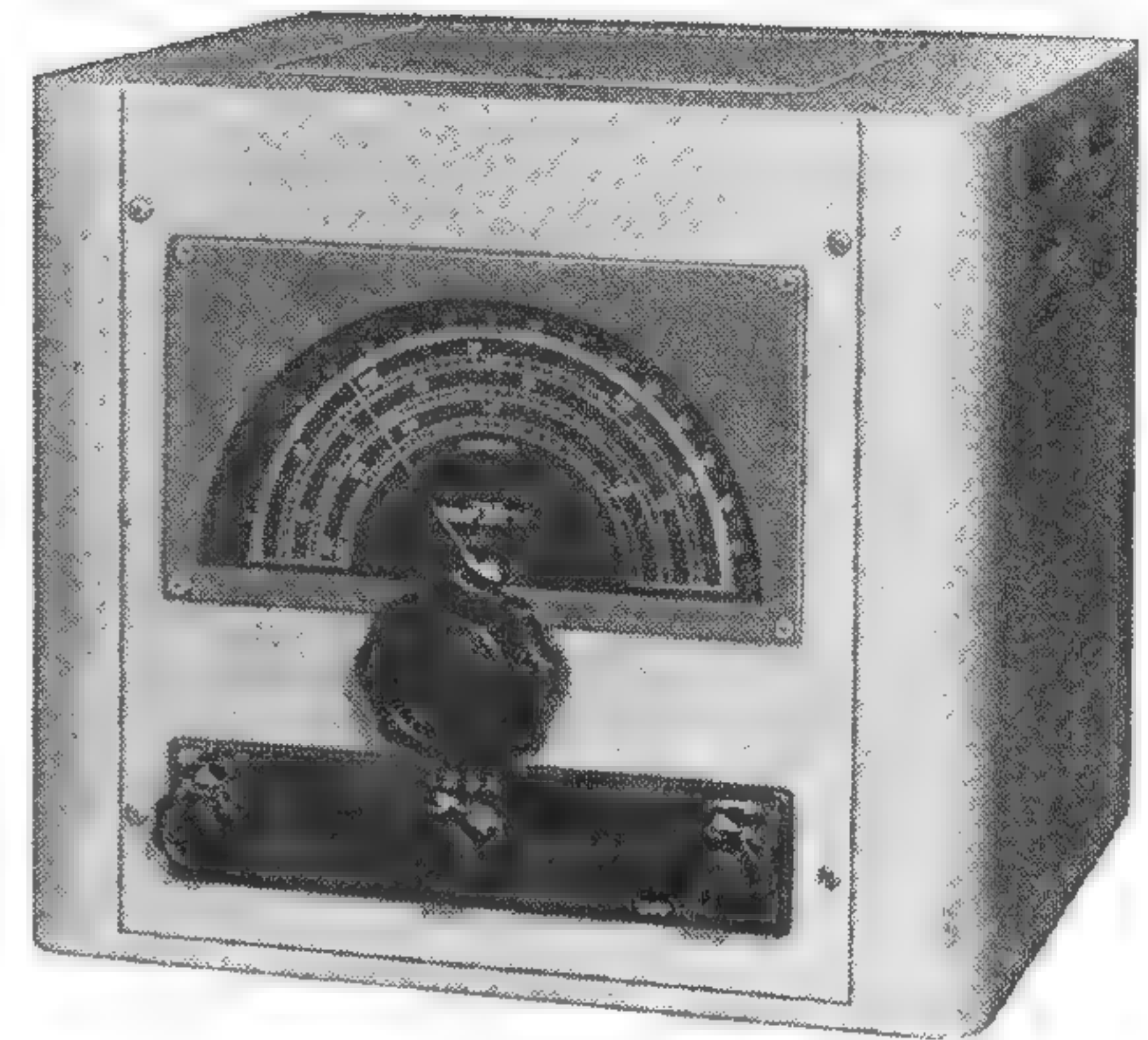
## WITH PROFESSIONAL TASTES



### *The New DB22A Preselector*

Coverage .54 to 44 Mc. — Average Gain 30 DB

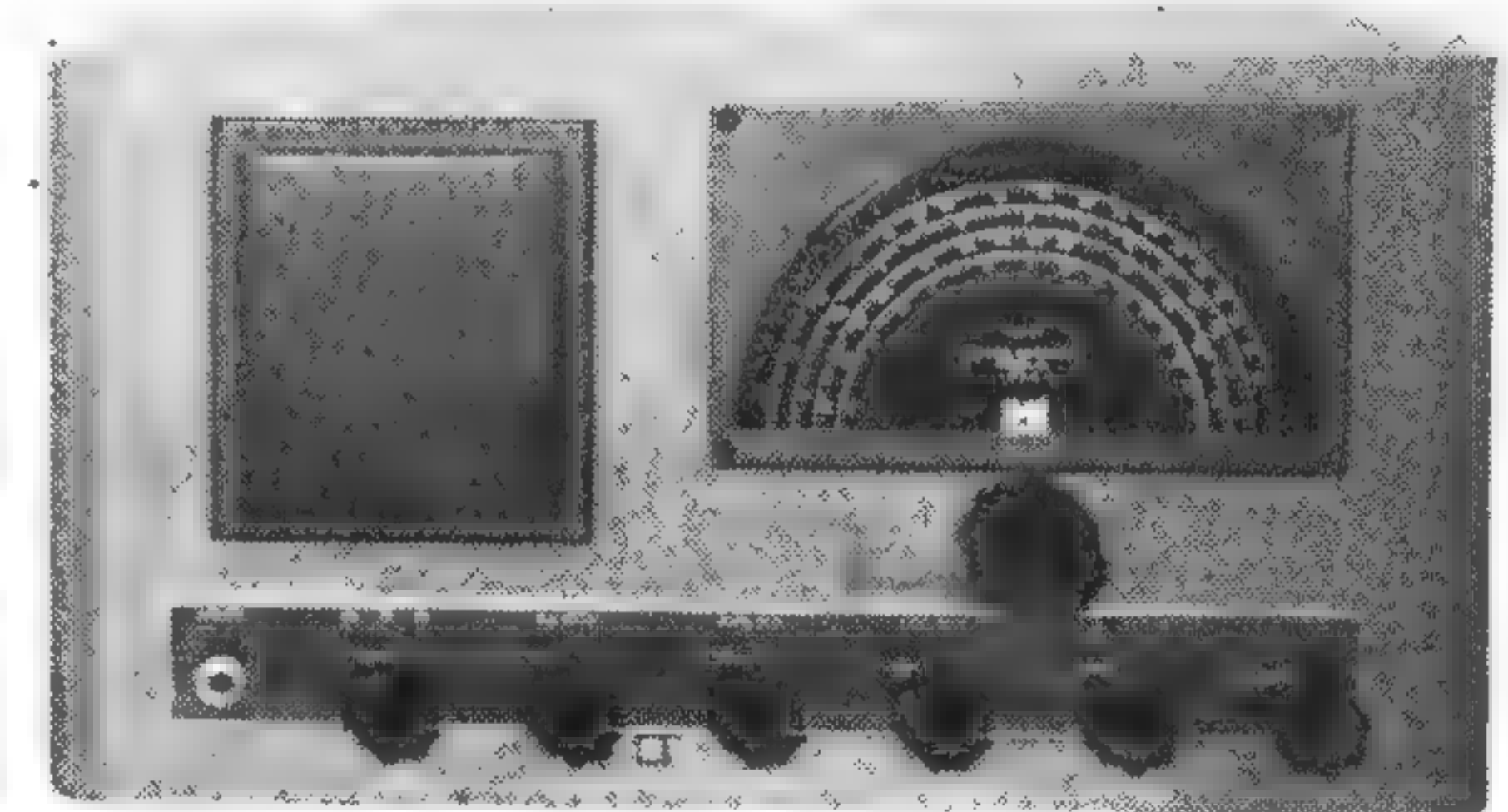
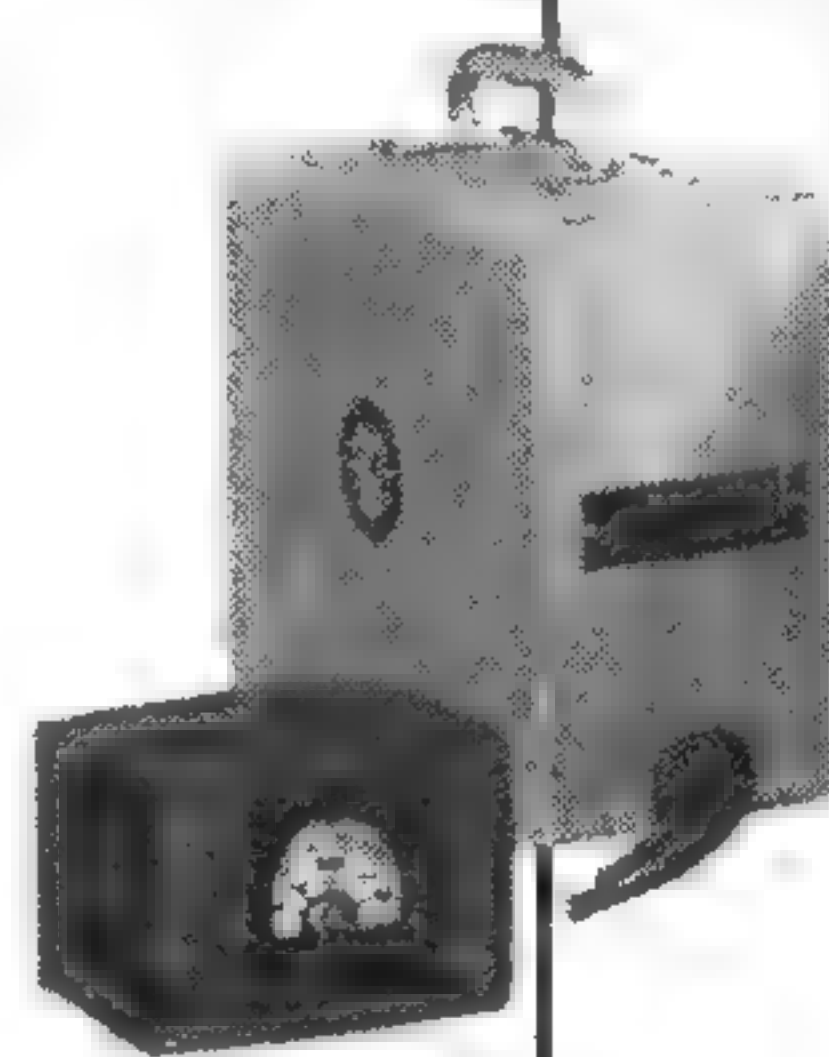
Here's the new DB22A completely redesigned for greater efficiency and higher signal to noise ratio. It uses new 6BA6 miniatures. Image ratio is better than 50 DB with a communications receiver having a single stage of RF. It's calibrated, has smooth planetary tuning, self contained power supply, antenna bypass switch, gain control and many other features. Connect the DB22A to your receiver just like an antenna — no wiring — no plug in coils. It's entirely self-contained — entirely in a class by itself!



### *The RME 84*

For Home, Portable or Mobile Operation

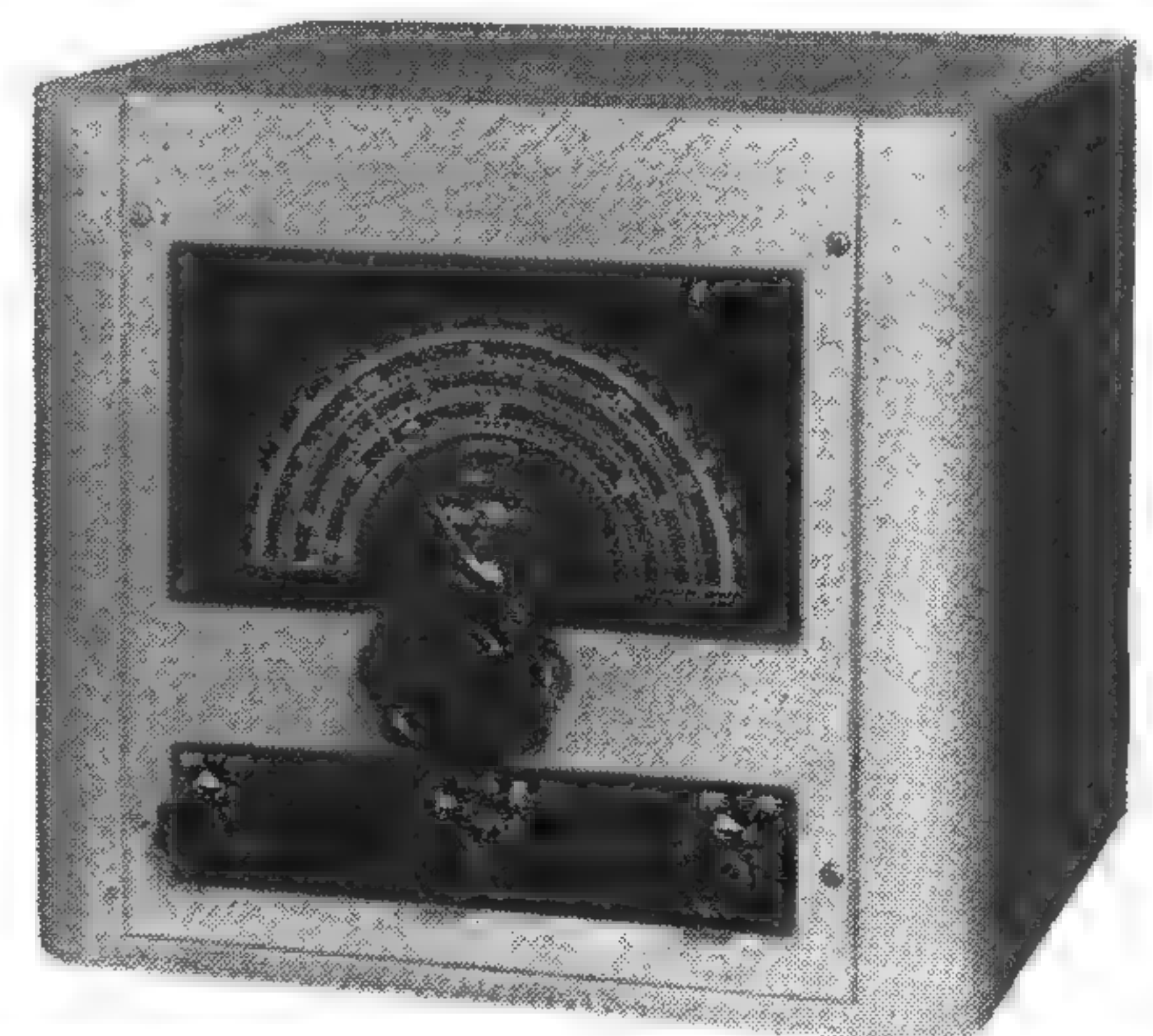
A quality receiver in the lower price field that will give you the most for your money. Operates from 115 volts AC, batteries or from the VP-2, a six volt power pack, optional with the RME 84. Also optional, and illustrated, is the CM-1 — Carrier Level "S" Meter.



### *The VHF-152 Converter*

For Two, Six, Ten and Eleven Meters

At a cost that an amateur can afford — the new VHF-152 used with a communications receiver will give you peak performance on the very high frequency bands, utilizing an efficient double conversion system. Unit has built in power supply, voltage regulator and temperature stabilized oscillator circuits. Provision is made for connection of 4 separate antennas.



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Folders  
On Request



# RME

FINE COMMUNICATIONS EQUIPMENT

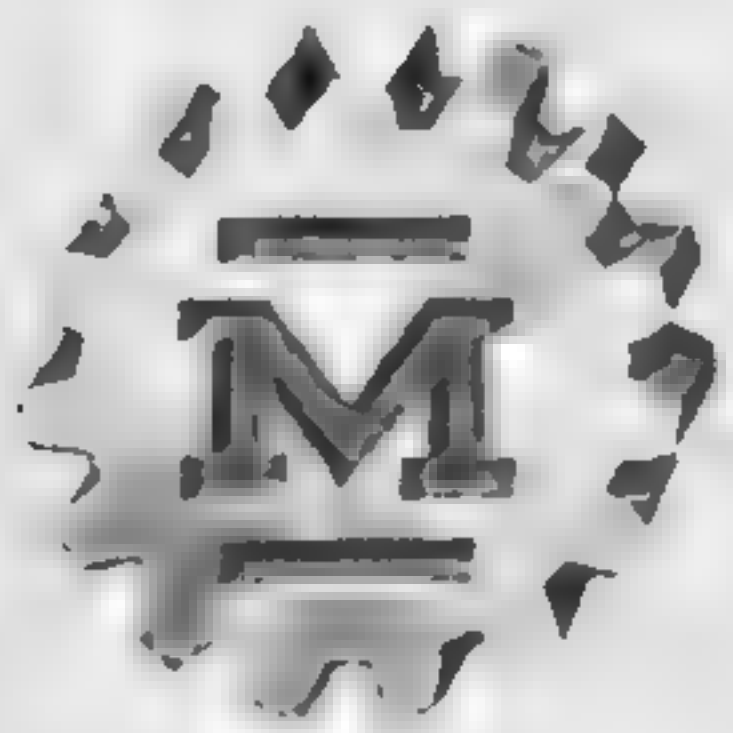
## RADIO MFG. ENGINEERS, INC.

Peoria 6, Illinois U. S. A.

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# Designed for Application



Millen "Designed for Application" components are different! As a designer and manufacturer for many years of complex electronic and communication equipment, we are our own best customer for component parts. Consequently, we have to perform an outstanding job of designing and manufacturing such parts in order to satisfy our own applications. Our parts are "different", also, because as symbolized by the "Gear wheel" of our registered trade mark, they are designed by mechanical engineers working in close cooperation with our electronic circuit group. Below are illustrated a typical half dozen of the many "Designed for Performance" equipments we manufacture from our own component parts.



90881



90800



90711



90281



90201



90902

Illustrated above, left to right; Top Row: The No. 90881, 500 watt, RF power amplifier. Plug-in inductors available from stock for all amateur bands and on special order for particular commercial frequencies. The No. 90800 transmitter-exciter. May be used as either an independent 50 watt transmitter or as an exciter for the No. 90881, 500 watt amplifier. The No. 90711 variable frequency oscillator. Bottom row: The No. 90281, 700 volt, 250 MA power supply, the No. 90201 regulated power supply and the No. 90902 cathode ray oscilloscope.

## JAMES MILLEN MFG. CO., INC.

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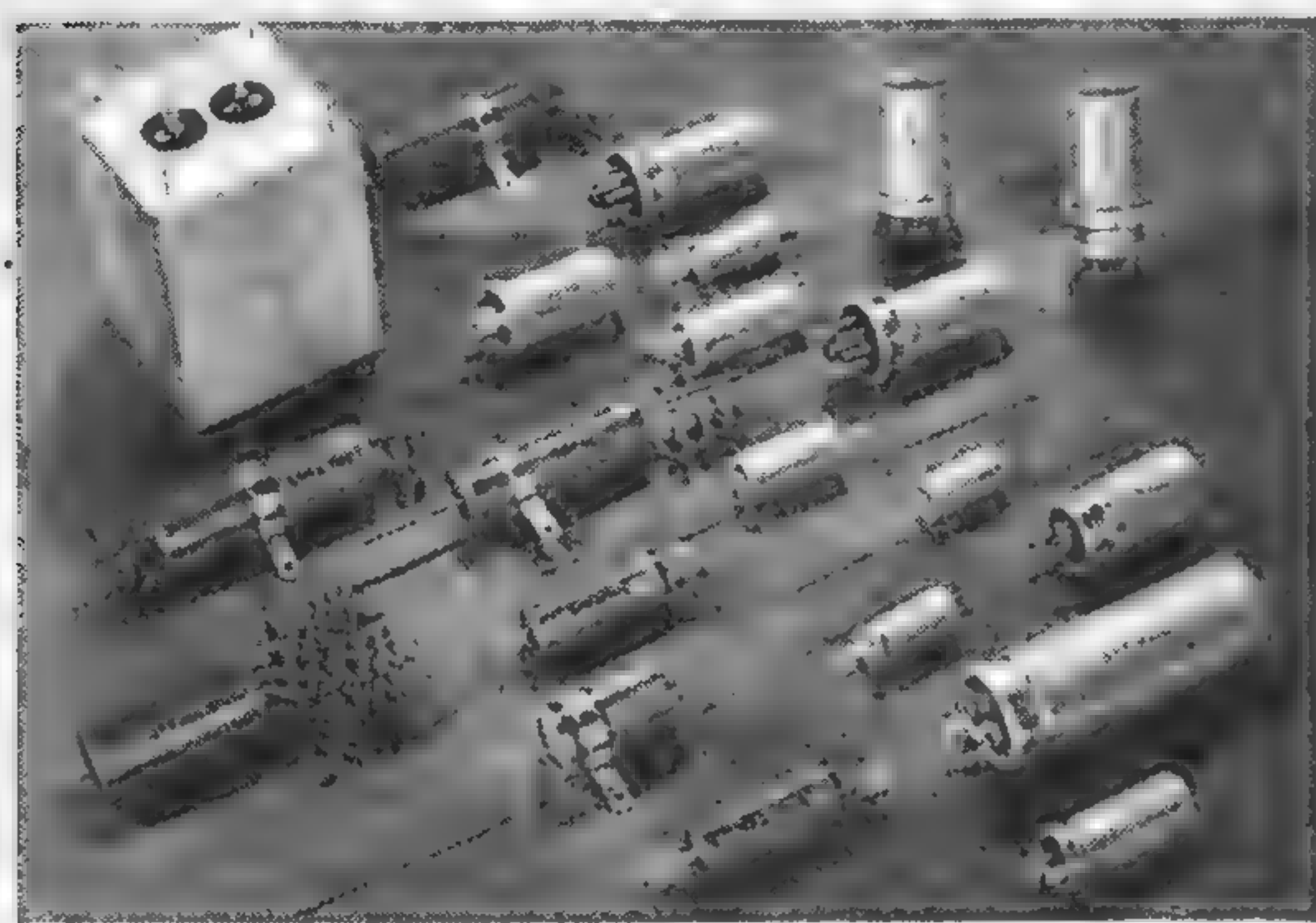
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SCARBORO BLUFFS (TORONTO)



# Here's Capacitor Dependability!

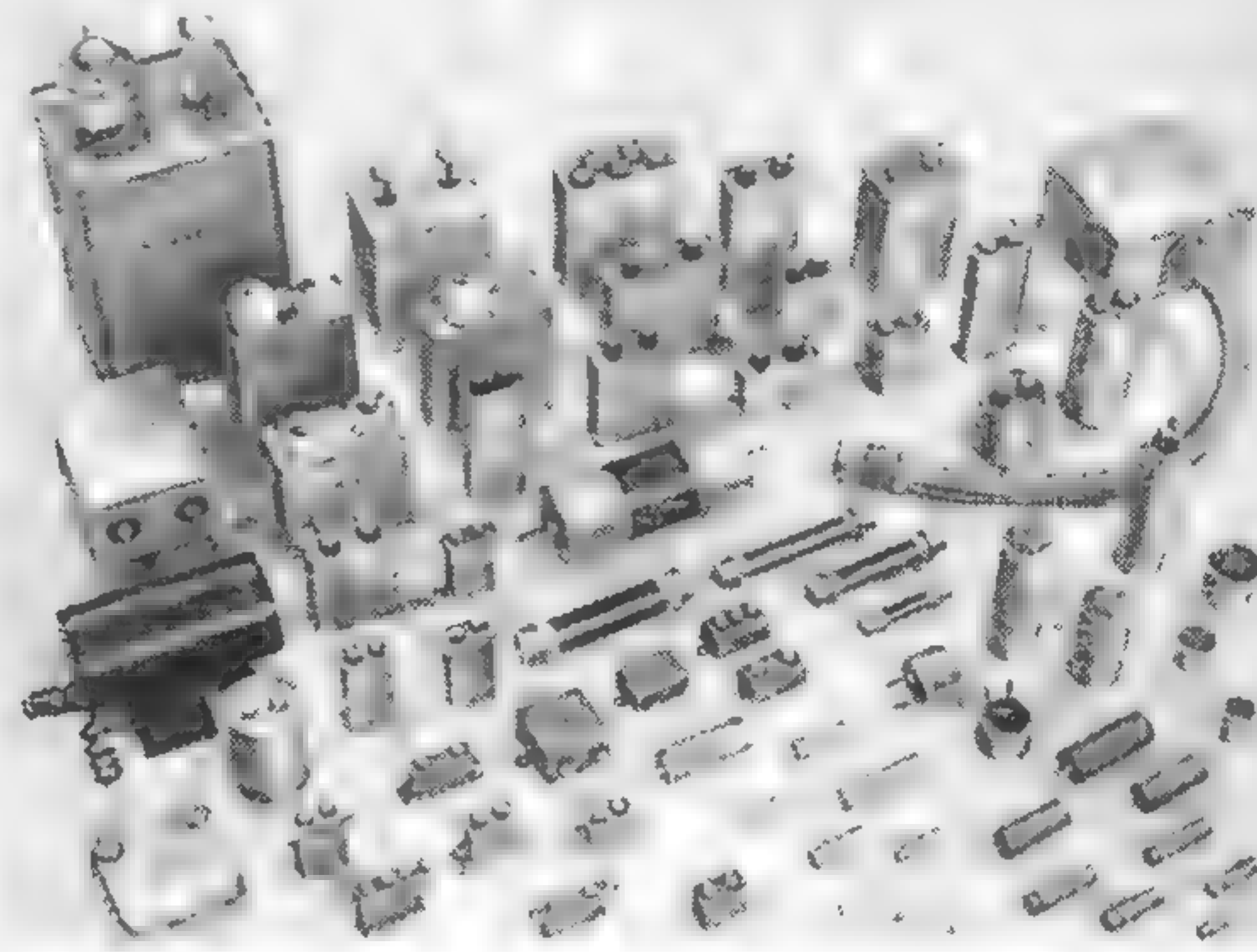
Shown here are a few of more than 9675 capacitor and \*Koolohm resistor types that Sprague produces every year. Many of these are for critical industrial applications, others for national defense and ultra-exacting scientific needs.

From this vast array come the capacitors that are carefully selected for amateur radio uses—types that mean more for your money because they're better engineered, built more dependably. Catalog on request.



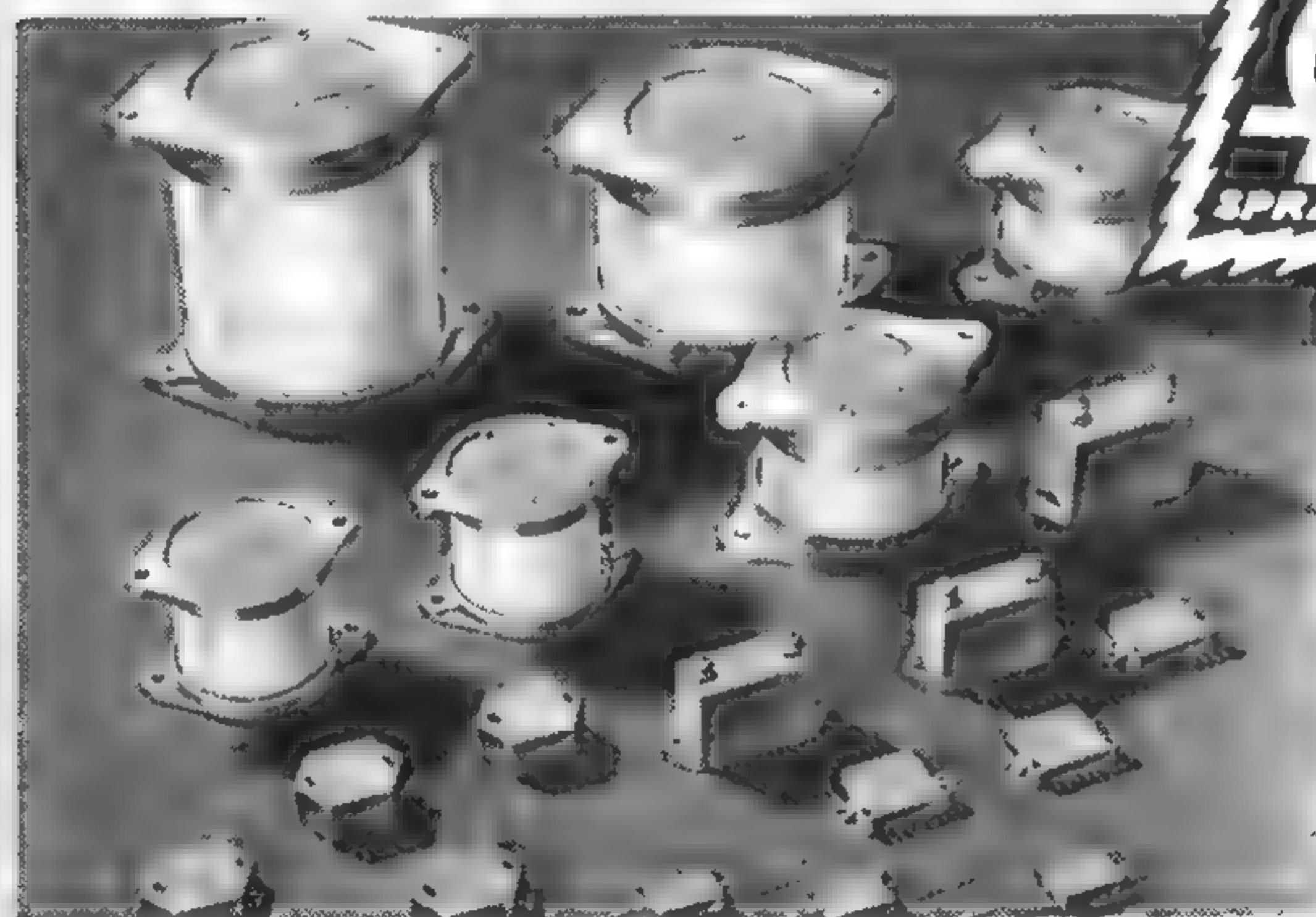
## DRY ELECTROLYTICS

Sprague offers the most diversified dry electrolytic capacitor line ever presented for standard distributor stock. Tiny "Atom" midgets; self-mounting multi-section units; high-capacity, low-voltage tubulars; rectangular and cylindrical shapes; lug, bracket and self-mounting types; terminals and lead connections and many others!



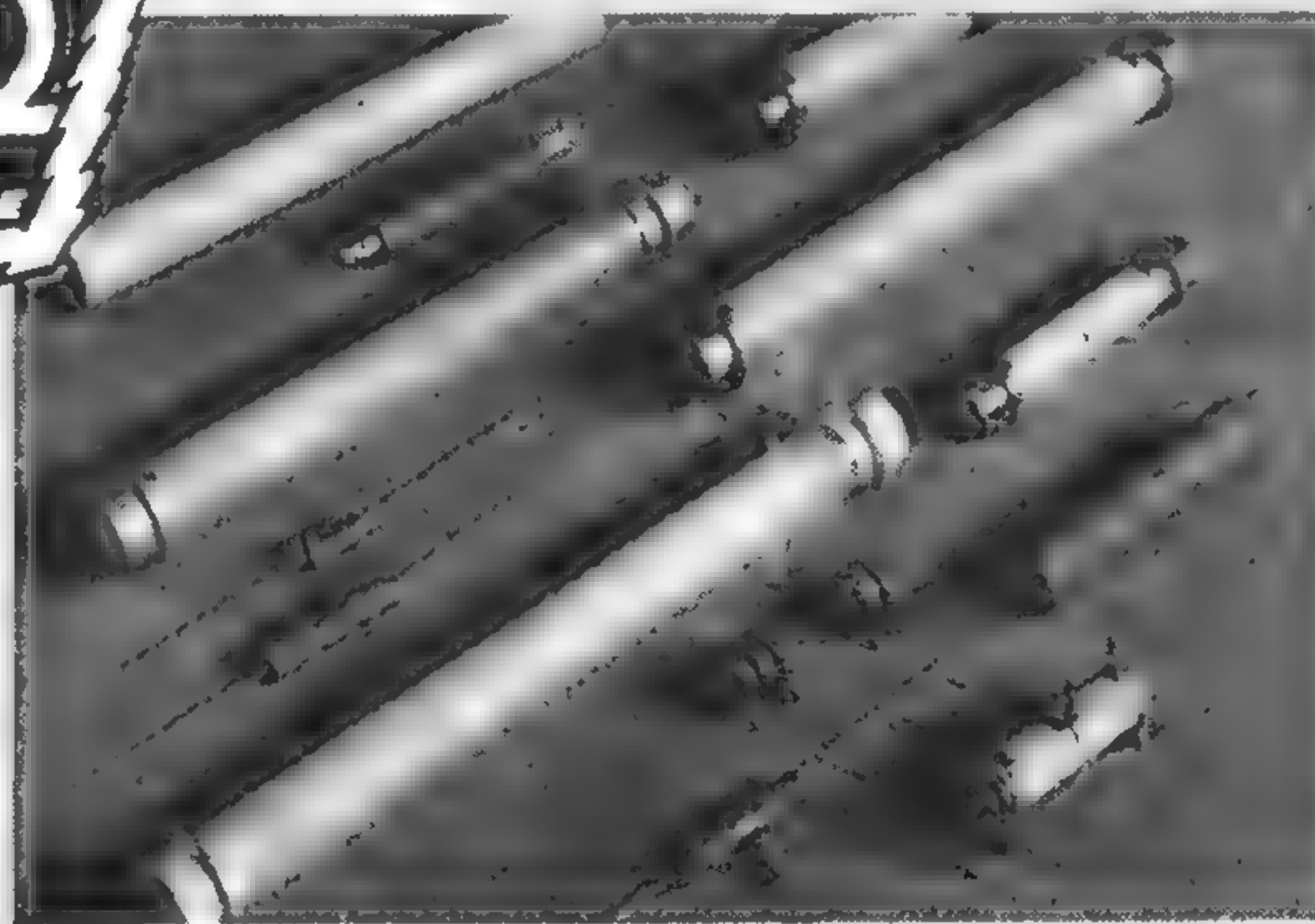
## PAPER DIELECTRICS

Standard Sprague paper dielectric capacitors for amateur use include 15 types and over 250 items. Chief among them are three small, popularly priced transmitting types that are both filled and impregnated with \*KVO, the exclusive Sprague dielectric. And don't forget the TC Tubular By-pass types— "Not a failure in a million!"



## MICA DIELECTRICS

Sprague distributors carry complete stocks of popular mica capacitors including all needed capacities and voltage ratings—in sizes from "postage stamp" silvered micas to high-voltage ceramic-jacketed units. All provide maximum quality for R-F applications where low power factor and high insulation resistance at high frequencies are essential.



## \*KOOLOHM RESISTORS

Sprague Koolohm Resistors are wound with wire insulated before winding with a flexible ceramic coating that is impervious to heat as high as 1000° C. Doubly protected by glazed ceramic shells and moisture resistant seals. Insulated for 10,000 volts resistance breakdown to ground. Larger, sturdier wire sizes in smaller resistors. Use Koolohms at full wattage ratings—anywhere!

\*Trademarks Reg. U. S. Pat. Off.

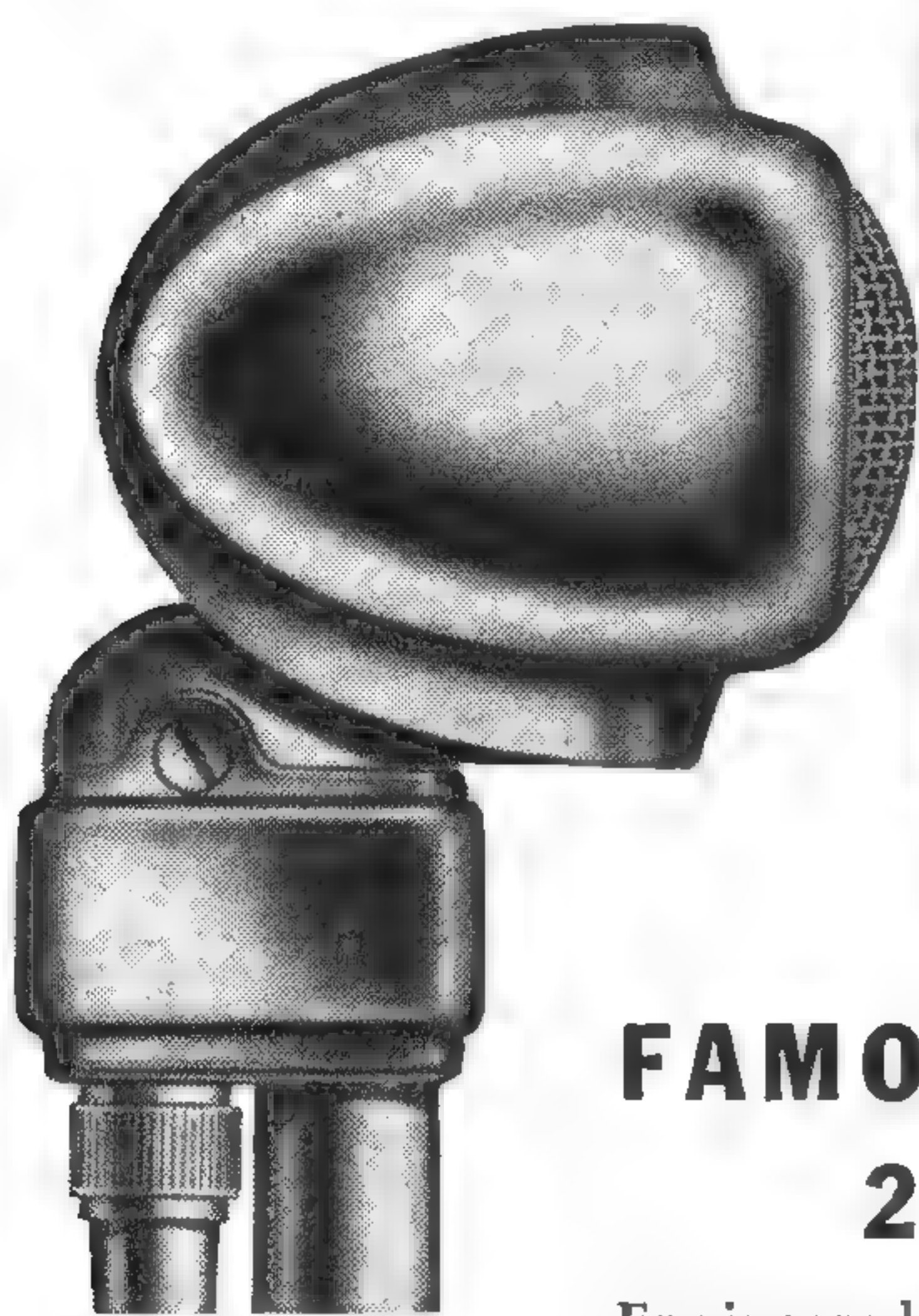
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PIONEERS OF ELECTRONIC AND ELECTRICAL PROGRESS  
SPRAGUE PRODUCTS COMPANY, NORTH ADAMS, MASS.

*Jobbing distributing organization for products of Sprague Electric Co.*

*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*





# THE PASSWORD TO SOUND PERFORMANCE

## *Microphones* BY TURNER

### FAMOUS TURNER 22X-22D

Engineered for smooth response to both voice and music pick-ups. Choice of crystal or dynamic circuits. 22X Crystal has built-in wind-gag permitting outdoor operation. Crystal impregnated against moisture and protected against changes in barometric pressure. Level: 52db below 1 volt/dyne/sq.cm. Response: Flat within  $\pm 5$ db from 50 to 9000 c.p.s. 22D Dynamic has high level dynamic cartridge. Dependable indoors or out. Response: Flat within  $\pm 5$ db from 50 to 9000 c.p.s. Level: 54db below 1 volt/dyne/sq.cm. In 50, 200, 500 ohms or high impedance. Both models equipped with 90° tilting head and 7 ft. removable cable set.

### NEW, IMPROVED VT-73 DESK MICROPHONE



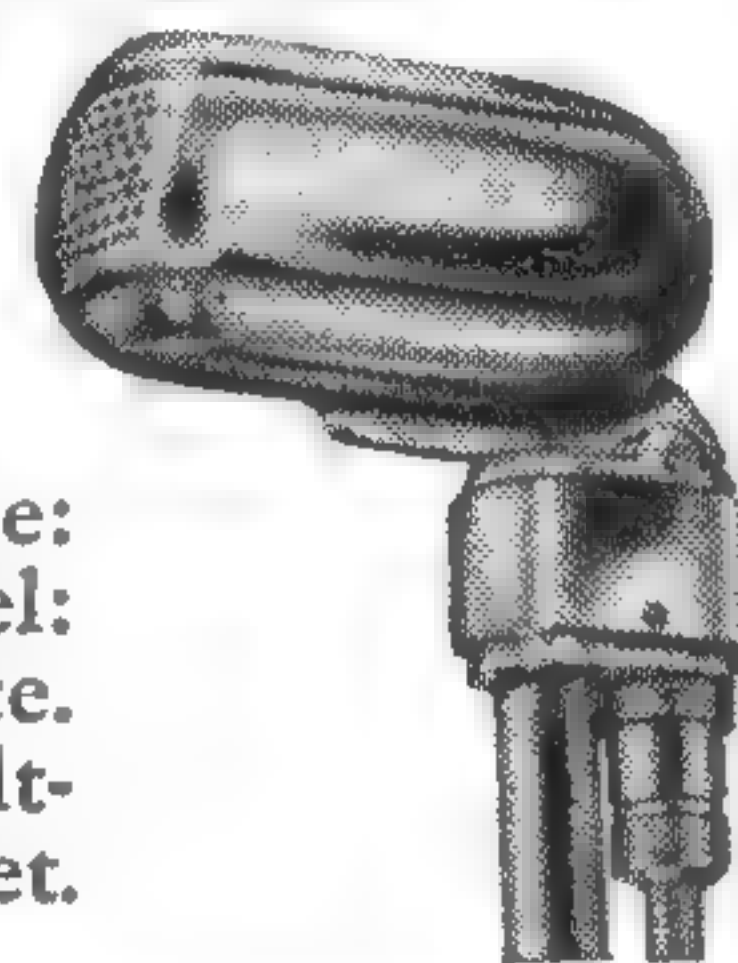
Here's a dependable unit for clear, crisp results. Stepped up in both performance and styling. The new Turner VT-73 increases intelligibility at voice frequencies without over-modulation. Engineered especially for Quality speech recording, public address, and amateur use with *rising curvature of response* between 500-4000 cycles. High quality moisture proofed crystal. Level: 52db below 1 volt/dyne/sq.cm. Response: 50-7000 c.p.s. Finished in black crinkle and chrome. Complete with ball swivel head, stand and 7 ft. cable.

**A WORLD WIDE FAVORITE WITH PROMINENT AMATEURS FOR QUALITY REPORTS**

For microphones you can depend upon for clear, sharp communications Turn to Turner—the *password to sound performance*. Precision engineered of finest materials Turner Microphones are built to stand up and deliver under the most difficult service conditions. To thousands of radio amateurs there's no mike like a Turner—the leader in style, in dependability, in performance.

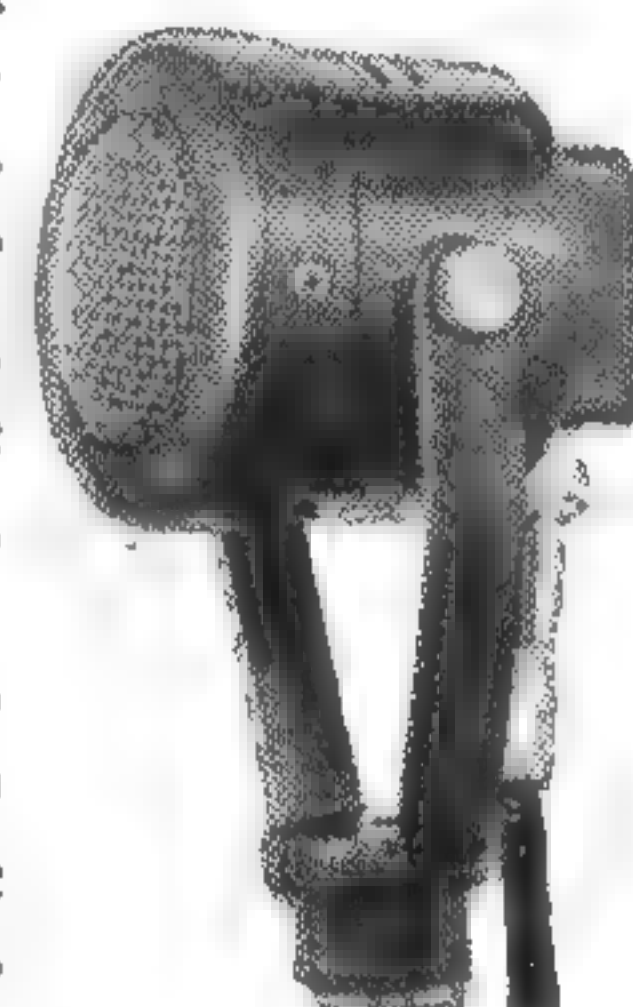
### MODEL 211 BROADCAST QUALITY DYNAMIC

Engineered for highest quality recording, P.A., sound system and broadcast work. Utilizes new type magnet structure and acoustic network. Unique diaphragm structure design provides extremely low harmonic and phase distortion without sacrifice of high output level. Response: Flat within  $\pm 5$ db from 30-10,000 c.p.s. Level: 54db below 1 volt/dyne/sq.cm. at high impedance. Available in all standard impedances with 90° tilting head and 20 ft. heavy duty removable cable set.



### FOR PROFESSIONAL RESULTS WITH YOUR RIG

**TURNER 99 DYNAMIC** The most rugged microphone in the entire Turner line. Professional in both appearance and performance. Engineered and built for the discriminating user who wants utmost in efficiency and dependability. Withstands severe climate and temperature changes. Semi- or non-directional operation. Baked gun-metal finish. Level: 52db below 1 volt/dyne/sq.cm. Response: Flat within  $\pm 5$ db from 40 to 9000 c.p.s. Choice of 50, 200, 500 ohms or high impedance with 20 ft. removable cable set. Also available as Model 999 with Balanced Line features for critical applications.



## PLUS PERFORMANCE AT LOW COST...TURNER CHALLENGERS



Turner Challenger Microphones are designed and built to give highly satisfactory results in economical P.A., sound system, and amateur installations. Price considered, they have no equal for performance. They are built with the same care and precision as all Turner Microphones and are fully guaranteed.



**MODEL BX CRYSTAL** A semi-directional unit for recording, P. A., and amateur work. Attractive brown enamel finish. High quality crystal. Humidity protected. Shock mounted and equipped with barometric compensator. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within  $\pm 5$ db from 50-6000 c.p.s. With 7 ft. attached cable.

**MODEL BD DYNAMIC** Same style and finish as Model BX except equipped with high level dynamic cartridge. Rugged. Works indoors or out. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within  $\pm 8$ db from 50-6000 c.p.s. Choice of 50, 200, 500 ohms, or high impedance. Complete with 7 ft. attached cable.

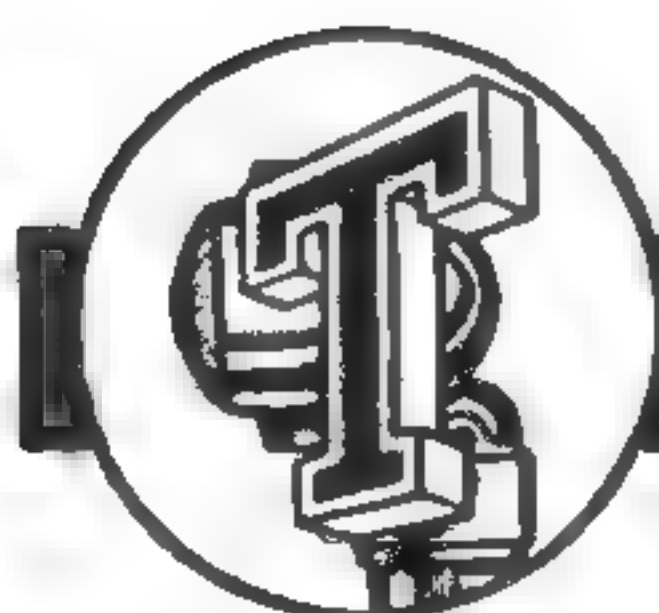
**MODEL CX CRYSTAL** Attractive general purpose semi-directional microphone finished in satin chrome. Has 7 ft. removable cable set. High quality humidity protected crystal. Shock mounted and equipped with barometric compensator. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within  $\pm 5$ db from 50-7000 c.p.s.

**MODEL CD DYNAMIC** Same appearance and satin chrome finish as Model CX. Smooth performing dynamic circuit withstands rougher handling. Level: 52db below 1 volt/dyne/sq. cm. Response: flat within  $\pm 8$ db from 50-7000 c.p.s. Complete with 7 ft. removable cable set in a choice of 50, 200, 500 ohms, or high impedance.

*Complete Turner Microphone line includes crystal and dynamic units for every communication and sound need. Write for literature.*

## THE TURNER COMPANY

920 17th Street N.E., Cedar Rapids, Iowa



**TURN TO TURNER FOR THE FINEST IN ELECTRONIC EQUIPMENT**

MICROPHONES LICENSED UNDER U. S. PATENTS OF THE AMERICAN TELEPHONE AND TELEGRAPH COMPANY, AND WESTERN ELECTRIC COMPANY, INCORPORATED. CRYSTALS LICENSED UNDER PATENTS OF THE BRUSH DEVELOPMENT CO.

*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



# B & W



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B & W Inductor  
Coil and Capacitor  
Catalog.

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## INDUCTOR COIL Headquarters

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EXPORT: ROYAL NATIONAL COMPANY, 75 WEST STREET, NEW YORK, N. Y.



# INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in locating the country when DX calls are heard. Figures in parentheses ( ) show the amount of postage required when mailing from the United States and possessions. The first figure is for letters, (first ounce or fraction), and the second figure for post cards or QSL cards.

AC3 (5, 3)	SIKKIM	KH6 (3, 1)	HAWAIIAN ISLANDS	VP5 (5, 3)	JAMAICA, CAYMAN, TURKS & CAICOS IS.
AC4 (5, 3)	TIBET	KJ6 (3, 1)	JOHNSTON ISLAND	VP6 (5, 3)	BARBADOS
AR (5, 3)	SYRIA	KL7 (3, 1)	ALASKA	VP7 (5, 3)	BAHAMA ISLANDS
C (5, 3)	CHINA	KM6 (3, 1)	MIDWAY ISLAND	VP8 (5, 3)	FALKLAND ISLANDS, South Georgia, South Orkney and South Shetland Islands.
CE (3, 2)	CHILE	KP4 (3, 1)	PUERTO RICO	VP9 (5, 3)	BERMUDA ISLANDS
CM-CO (3, 2)	CUBA	KP6 (3, 1)	PALMYRA & JARVIS ISLANDS	VQ1 (5, 3)	ZANZIBAR
DN8 (5, 3)	FRENCH MOROCCO	KS4 (3, 1)	SWAN ISLAND	VQ2 (5, 3)	NORTHERN RHODESIA
CP (3, 2)	BOLIVIA	KS6 (3, 1)	U. S. SAMOA	VQ3 (5, 3)	TANGANYIKA
CR4 (5, 3)	CAPE VERDE ISLANDS	KV4 (3, 1)	VIRGIN ISLANDS	VQ4 (5, 3)	KENYA
CR5 (5, 3)	PORTUGUESE GUINEA	KW6 (3, 1)	WAKE ISLAND	VQ5 (5, 3)	UGANDA
CR6 (5, 3)	ANGOLA	KZ5 (3, 1)	CANAL ZONE	VQ6 (5, 3)	BRITISH SOMALILAND
CR7 (5, 3)	MOZAMBIQUE	LA (5, 3)	NORWAY	VQ8 (5, 3)	CHAGOS ISLAND & MAURITIUS
CR8 (5, 3)	GOA (Portuguese India)	LU (3, 2)	ARGENTINA	VQ9 (5, 3)	SEYCHELLES
CR9 (5, 3)	MACAU	LX (5, 3)	LUXEMBOURG	VR1 (5, 3)	GILBERT, ELLICE & OCEAN ISLANDS
CR10 (5, 3)	TIMOR ISLAND (Port.)	LZ (5, 3)	BULGARIA	VR2 (5, 3)	FIJI ISLANDS
CT1 (5, 3)	PORTUGAL	NY4 (3, 1)	GUANTANAMO BAY, CUBA	VR3 (5, 3)	FANNING ISLAND
CT2 (5, 3)	AZORES ISLANDS	OA (3, 2)	PERU	VR4 (5, 3)	SOLOMON ISLANDS
CT3 (5, 3)	MADERIA ISLANDS	OH (5, 3)	FINLAND	VR5 (5, 3)	TONGA (Friendly) ISLAND
CX (3, 2)	URUGUAY	OE (5, 3)	AUSTRIA	VR6 (5, 3)	PITCAIRN ISLAND
D (5, 3)	GERMANY	OK (5, 3)	CZECHOSLOVAKIA	VS1 ✓ (5, 3)	STRAIT SETTLEMENTS
EA (3, 2)	SPAIN	ON (5, 3)	BELGIUM	VS2 ✓ (5, 3)	FEDERATED MALAY STATES
EA6 (3, 2)	BALEARIC ISLANDS	OQ5 (5, 3)	BELGIAN CONGO	VS3 ✓ (5, 3)	NON-FEDERATED MALAY STATES
EA8 (3, 2)	CANARY ISLANDS	OX (5, 3)	GREENLAND	VS4 (5, 3)	BRITISH NORTH BORNEO
EA9 (3, 2)	SPANISH MOROCCO	OY (5, 3)	FAEROES ISLANDS	VS5 (5, 3)	BRUNEI & SARAWAK
EI (5, 3)	IRELAND	OZ (5, 3)	DENMARK	VS6 (5, 3)	HONG KONG
EK1 (5, 3)	TANGIER ZONE	PA, PI (5, 3)	NETHERLANDS	VS7 (5, 3)	CEYLON
EL (5, 3)	LIBERIA	PJ (5, 3)	NETH. WEST INDIES	VS9 (5, 3)	ADEN & SOCOTRA ISLANDS
EP, EQ (5, 3)	IRAN (ex Persia)	PK1, 2, 3 (5, 3)	JAVA	VU (5, 3)	INDIA
ET (5, 3)	ETHIOPIA	PK4 (5, 3)	SUMATRA	VU4 (5, 3)	LACCADIVE ISLANDS
F (5, 3)	FRANCE	PK5 (5, 3)	BORNEO (Neth. Indies)	VU7 (5, 3)	BAHREIN ISLANDS
FA (5, 3)	ALGERIA	PK6 (5, 3)	CELEBES & MOLUCCA IS., & NETHERLAND NEW GUINEA	W ✓ (3, 1)	UNITED STATES
FB8 (5, 3)	MADAGASCAR	PX (5, 3)	ANDORRA	XE (3, 2)	MEXICO
FD8 (5, 3)	FRENCH TOGOLAND	PY (3, 2)	BRAZIL	XU ✓ (5, 3)	CHINA
FE8 (5, 3)	FRENCH CAMEROONS	PZ (5, 3)	SURINAM	XZ (5, 3)	BURMA
FF8 (5, 3)	FRENCH WEST AFRICA	SM (5, 3)	SWEDEN	YA (5, 3)	AFGHANISTAN
FG8 (5, 3)	GUADELOUPE	SP (5, 3)	POLAND	YI (5, 3)	IRAQ
FI8 (5, 3)	FRENCH INDO-CHINA	ST (5, 3)	SUDAN	YJ (5, 3)	NEW HEBRIDES
FK8 (5, 3)	NEW CALEDONIA	SU (5, 3)	EGYPT	YN (3, 2)	NICARAGUA
FL8 (5, 3)	FRENCH SOMALILAND	SV (5, 3)	CRETE & GREECE	YR (5, 3)	ROUMANIA
FM8 (5, 3)	MARTINIQUE	TA (5, 3)	TURKEY	YS (3, 2)	SALVADOR
FN (5, 3)	FRENCH INDIA	TF (5, 3)	ICELAND	YT, YU (5, 3)	YUGOSLAVIA
FO8 (5, 3)	TAHITI	TG (3, 2)	GUATEMALA	YV (3, 2)	VENEZUELA
FP8 (5, 3)	MIQUELON & ST. PIERRE IS.	TI (3, 2)	COSTA RICA	ZA (5, 3)	ALBANIA
FQ8 (5, 3)	FRENCH EQUATORIAL AFRICA	UA1-3-4-6 (5, 3)	EUROPEAN RUSSIAN SOCIALIST FEDERATED SOVIET REPUBLIC	ZB1 (5, 3)	MALTA
FR8 (5, 3)	REUNION ISLAND	UA9-8 (5, 3)	ASIATIC RUSSIAN S. F. S. R.	ZB2 (5, 3)	GIBRALTAR
FT4 (5, 3)	TUNISIA	UB5 (5, 3)	UKRAINE	ZC1 (5, 3)	TRANSJORDAN
FU8 (5, 3)	NEW HEBRIDES	UC5 (5, 3)	WHITE RUSSIAN S.S.R.	ZC2 (5, 3)	COCOS ISLANDS
FY8 (5, 3)	FRENCH GUIANA	UD6 (5, 3)	AZERBAIJAN	ZC3 (5, 3)	CHRISTMAS ISLAND
G (5, 3)	ENGLAND	UF6 (5, 3)	GEORGIA	ZC4 (5, 3)	CYPRUS
GC (5, 3)	CHANNEL ISLANDS	UG6 (5, 3)	ARMENIA	ZC6 (5, 3)	PALESTINE
GI (5, 3)	NORTHERN IRELAND	UH8 (5, 3)	TURKOMAN	ZD1 (5, 3)	SIERRA LEONE
GM (5, 3)	SCOTLAND	UI8 (5, 3)	UZBEK	ZD2 (5, 3)	NIGERIA
GW (5, 3)	WALES	UJ8 (5, 3)	TADZHIK	ZD3 (5, 3)	GAMBIA
HA (5, 3)	HUNGARY	UL7 (5, 3)	KAZAKH	ZD4 (5, 3)	GOLD COAST & TOGOLAND
HB (5, 3)	SWITZERLAND	UM8 (5, 3)	KIRGHIZ	ZD6 (5, 3)	NYASALAND
HC (3, 2)	ECUADOR	UN1 (5, 3)	KARELO-FINNISH REPUBLIC	ZD7 (5, 3)	SAINT HELENA
HE1 (5, 3)	LIECHTENSTEIN	UO5 (5, 3)	MOLDAVIA	ZD8 (5, 3)	ASCENSION ISLAND
HH (3, 2)	HAITI	UP (5, 3)	LITHUANIA	ZD9 (5, 3)	TRISTAN DA CUNHA
HI (3, 2)	DOMINICAN REPUBLIC	UQ (5, 3)	LATVIA	ZE (5, 3)	SOUTHERN RHODESIA
HK (3, 2)	COLOMBIAN REPUBLIC	UR (5, 3)	ESTONIA	ZK1 (5, 3)	COOK ISLANDS
HP (3, 2)	PANAMA	VE (3, 2)	CANADA	ZK2 (5, 3)	NIUE
HR (3, 2)	HONDURAS	VK (5, 3)	AUSTRALIA	ZL (5, 3)	NEW ZEALAND
HS (5, 3)	SIAM	VK4 (5, 3)	PAPUA TERRITORY	ZM (5, 3)	WESTERN SAMOA
HZ (5, 3)	SAUDI ARABIA (HEDJAZ & NEJDI)	VK7 ✓ (5, 3)	TASMANIA	ZP (3, 2)	PARAGUAY
I (5, 3)	ITALY	VK9 (5, 3)	TER. OF NEW GUINEA	ZS (5, 3)	UNION OF SOUTH AFRICA
I6 (5, 3)	ERITREA	VO (3, 2)	NEWFOUNDLAND & LABRADOR		
J (5, 3)	JAPAN	VP1 (5, 3)	BRITISH HONDURAS		
J8 1 1/2 (5, 3)	KOREA	VP2 (5, 3)	LEEWARD & WINDWARD ISLANDS		
J9 (3, 1)	OKINAWA		(British), Antigua, Grenada, St. Kitts, St. Lucia, St. Vincent, and Dominica.		
K (3, 1)	UNITED STATES	VP3 (5, 3)	BRITISH GUIANA		
KA (5, 3)	PHILIPPINE ISLANDS	VP4 (5, 3)	TRINIDAD & TOBAGO IS.		
KB6 (5, 3)	BAKER, CANTON, ENDERBURY, HOWLAND & PHOENIX ISLANDS				
KC4 (5, 3)	ANTARCTICA				
KG6 (3, 1)	MARIANA ISLANDS (Guam)				





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# PREFIXES—BY COUNTRIES

The following countries listed in alphabetical order by country show international radio amateur prefixes. The figures in parentheses ( ) are international air mail postage rates for each half ounce or fraction in effect November 1, 1946. The air mail rate for Alaska, Canada, Canal Zone, Canton Island, Guam, Guantanamo Bay, Hawaii, Johnston Island, Mexico, Midway Island, Puerto Rico and the Virgin Islands is 5 cents per ounce or fraction.

Cents			Cents			Cents		
ADEN	(25)	VS9	GOA (Portuguese India)	(25)	CR8	PORTUGAL	(15)	CT1
AFGHANISTAN	(25)	YA	GOLD COAST	(25)	ZD4	PORTUGUESE GUINEA	(25)	CR5
ALASKA	(05)	KL7	GREECE	(15)	SV	PUERTO RICO	(05)	KP4
ALBANIA	(15)	ZA	GREENLAND		OX	REUNION I.	(25)	FR8
ALGERIA	(15)	FA	GRENADA	(10)	VP2	ROUMANIA	(15)	YR
ANDORRA	(15)	PX	GUADELOUPE	(10)	FG8	SAINT HELENA		ZD7
ANGOLA	(25)	CR6	GUAM	(05)	KG6	SAINT KITTS	(10)	VP2
ANTARCTICA		KC4	GUANTANAMO BAY, CUBA		NY4	SAINT LUCIA	(10)	VP2
ANTIGUA	(10)	VP2	GUATEMALA	(10)	TG	SAINT VINCENT	(10)	VP2
ARGENTINA	(10)	LU	HAITI	(10)	HH	SALVADOR	(10)	YS
ASCENSION I.	(15)	ZD8	HAWAIIAN IS.	(05)	KH6	SAMOA (U.S.)		KS6
AUSTRALIA	(25)	VK	HONDURAS	(10)	HR	SAMOA (Western)		ZM
AUSTRIA	(15)	OE	HONG KONG	(25)	VS6	SARAWAK	(25)	VS5
AZORES IS.	(15)	CT2	HOWLAND I.		KB6	SAUDI ARABIA (Hedjaz & Nejd)	(25)	HZ
BAHAMA IS.	(10)	VP7	HUNGARY	(15)	HA	SCOTLAND	(15)	GM
BAHREIN IS.	(25)	VU7	ICELAND	(15)	TF	SEYCHELLES		VQ9
BAKER I.	(05)	KB6	INDIA	(25)	VU	SIAM	(25)	HS
BALEARIC IS.	(15)	EA6	IRAN (ex Persia)	(25)	EP-EQ	SIERRA LEONE	(25)	ZD1
BARBADOS	(10)	VP6	IRAQ	(25)	YI	SIKKIM		AC3
BASUTOLAND	(25)	ZS4	IRELAND	(15)	EI	SOCOTRA ISLAND	(25)	VS9
BELGIAN CONGO	(25)	OQ5	ITALY	(15)	I	SOLOMON IS.		VR4
BELGIUM	(15)	ON	JAMAICA	(10)	VP5	SOMALILAND (British)	(25)	VQ6
BERMUDA IS.	(10)	VP9	JAN MAYEN I.		OY	SOMALILAND (French)	(25)	FL8
BOLIVIA	(10)	CP	JAPAN		J	SOUTH GEORGIA		VP8
BORNEO (Br. North)	(25)	VS4	JARVIS I. (Palmyra Group)		KP6	SOUTH ORKNEY IS.		VP8
BORNEO (Neth. Indies)		PK5	JAVA	(25)	PK1, 2, 3	SOUTH SANDWICH IS.	(25)	VP8
BRAZIL	(10)	PY	JOHNSTON IS.		KJ6	SOUTH SHETLAND IS.		VP8
BRITISH GUIANA	(10)	VP3	KENYA	(25)	VQ4	SOUTHERN RHODESIA	(25)	ZE
BRITISH HONDURAS	(10)	VP1	KOREA		J8	SOVIET UNION:	(15)	U
BULGARIA	(15)	LZ	LABRADOR	(10)	VO	European Russian Socialist		
BRUNEI	(25)	VS5	LACCADIVE IS.	(25)	VU4	Federated Soviet Republic	UA1-3-4-6	
BURMA	(25)	XZ	LEEWARD IS.	(10)	VP2	Asiatic Russian S.F.S.R.	UA9-6	
CAMEROONS (British)	(25)	ZD2	LIBERIA	(25)	EL	Ukraine	UB5	
CAMEROONS (French)	(25)	FE8	LIECHTENSTEIN	(15)	HE1	White Russian Soviet Socialist Republic	UC5	
CANADA	(05)	VE	LITTLE AMERICA		KC4	Azerbaijan	UD6	
CANAL ZONE	(05)	KZ5	LUXEMBOURG	(15)	LX	Georgia	UF6	
CANARY IS.	(25)	EA8	MACAU	(25)	CR9	Armenia	UG6	
CANTON I.	(05)	KB6	MADAGASCAR	(25)	FB8	Turkoman	UH8	
CAPE VERDE IS.	(25)	CR4	MADERIA IS.	(15)	CT3	Uzbek	UI8	
CAYMAN IS.	(10)	VP5	MALAYA	(25)	VS	Tadzhik	UJ8	
CELEBES IS.	(25)	PK6	MALTA	(15)	ZB1	Kazakh	UL7	
CEYLON	(25)	VS7	MARIANA IS.		KG6	Kirghiz	UM8	
CHAGOS IS.	(25)	VQ8	MARTINIQUE	(10)	FM8	Karelo-Finnish Republic	UN1	
CHANNEL IS.	(15)	GC	MAURITIUS	(25)	VQ8	Moldavia	UC5	
CHILE	(10)	CE	MEXICO	(05)	XE	Lithuania	UP	
CHINA	(25)	C	MIDWAY I.	(05)	KM6	Latvia	UQ	
CHINA	(25)	C, XU	MIQUELON & ST. PIERRE IS. (.07 per oz.)		FP8	Estonia	UR	
CHRISTMAS I.		ZC3	MOLUCCA IS.		PK6	SPAIN	(15)	EA
COCOS IS.		ZC2	MOROCCO (French)	(15)	CN8	STRAITS SETTTS.	(25)	VS1
COLOMBIAN REP.	(10)	HK	MOROCCO (Spanish)	(15)	EA9	SUDAN		ST
COOK IS.		ZK1	MOZAMBIQUE		CR7	SUMATRA	(25)	PK4
COSTA RICA	(10)	TI	NETHERLANDS	(15)	PA, PI	SURINAM	(10)	PZ
CRETE	(15)	SV	NETHERLAND INDIES	(25)	PK	SWAN I.	(05)	KS4
CUBA	(08)	CM-CO	NETH. WEST INDIES	(10)	PJ	SWEDEN	(15)	SM
CYPRUS	(25)	ZC4	NEW CALEDONIA	(25)	FK8	SWITZERLAND	(15)	HB
CZECHOSLOVAKIA	(15)	OK	NEWFOUNDLAND	(10)	VO	SYRIA	(25)	AR
DENMARK	(15)	OZ	NEW GUINEA (Neth.)		PK6	TAHITI		FO8
DOMINICA	(10)	VP2	NEW GUINEA (Ter. of)	(25)	VK4	TANGANYIKA	(25)	VQ3
DOMINICAN REP.	(10)	HI	NEW HEBRIDES		FU8, YJ	TANGIER ZONE	(15)	EK1
ECUADOR	(10)	HC	NEW ZEALAND	(25)	ZL	TASMANIA	(25)	VK7
EGYPT	(15)	SU	NICARAGUA	(10)	YN	TIBET		AC4
ELLICE IS.		VR1	NIGERIA	(25)	ZD2	TIMOR I. (Port.)		CR10
ENDERBURY I.		KB6	NIUE		ZK2	TOBAGO	(10)	VP4
ENGLAND	(15)	G	NORTHERN IRELAND	(15)	GI	TOGOLAND (British)	(25)	ZD4
ERITREA	(25)	J6	NORTHERN RHODESIA	(25)	VQ2	TOGOLAND (French)	(25)	FD8
ETHIOPIA	(25)	ET	NORWAY	(15)	LA	TONGA (Friendly) IS.	(25)	VR5
FAEROES IS.	(15)	OY	NYASALAND	(25)	ZD6	TRANSJORDAN	(25)	ZC1
FALKLAND IS.	(10)	VP8	OCEAN ISLAND		VR1	TRINIDAD	(10)	VP4
FANNING I.		VR3	OKINAWA		J9	TRISTAN DA CUNHA		ZD9
FIJI IS.	(25)	VR2	PALESTINE	(25)	ZC6	TUNISIA	(15)	FT4
FINLAND	(15)	OH	PALMYRA IS.	(05)	KP6	TURKEY	(15)	TA
FRANCE	(15)	F	PANAMA	(10)	HP	TURKS & CAICOS IS.	(10)	VP5
FR. EQUATORIAL AFRICA	(25)	FQ8	PAPUA TERR. (Australian)	(25)	VK4	UGANDA	(25)	VQ5
FRENCH GUIANA	(10)	FY8	PARAGUAY	(10)	ZP	UNION OF SOUTH AFRICA	(25)	ZS
FRENCH INDIA	(25)	FN	PERU	(10)	OA	UNITED STATES	(5)	K, W
FR. INDO-CHINA	(25)	F18	PHILIPPINE IS.	(25)	KA	URUGUAY	(10)	CX
FRENCH OCEANIA	(25)	FO8	PHOENIX IS.	(05)	KB6	VENEZUELA	(10)	YV
FRENCH W. AFRICA	(25)	FF8	PITCAIRN I.		VR6	VIRGIN IS.	(05)	KV4
GAMBIA	(25)	ZD3	POLAND	(15)	SP	WAKE IS.		KW6
GERMANY	(15)	D				WALES	(15)	GW
GIBRALTAR	(15)	ZB2				WINDWARD ISLANDS	(1)	VP2
GILBERT IS.		VR1				YUGOSLAVIA	(15)	YT, YU
						ZANZIBAR	(25)	VQ1



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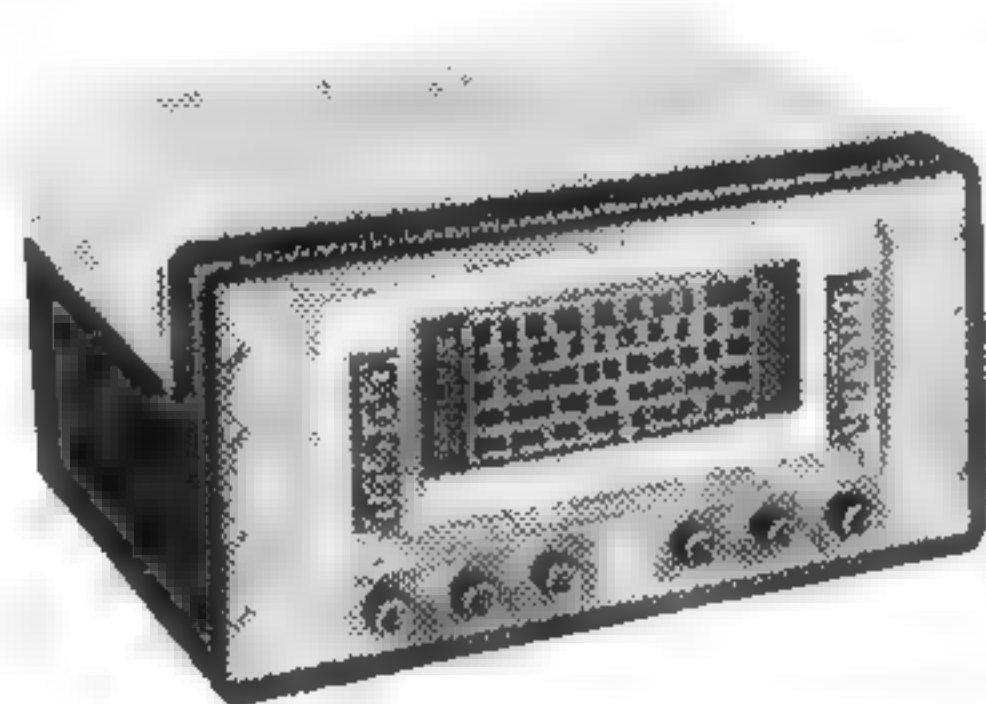
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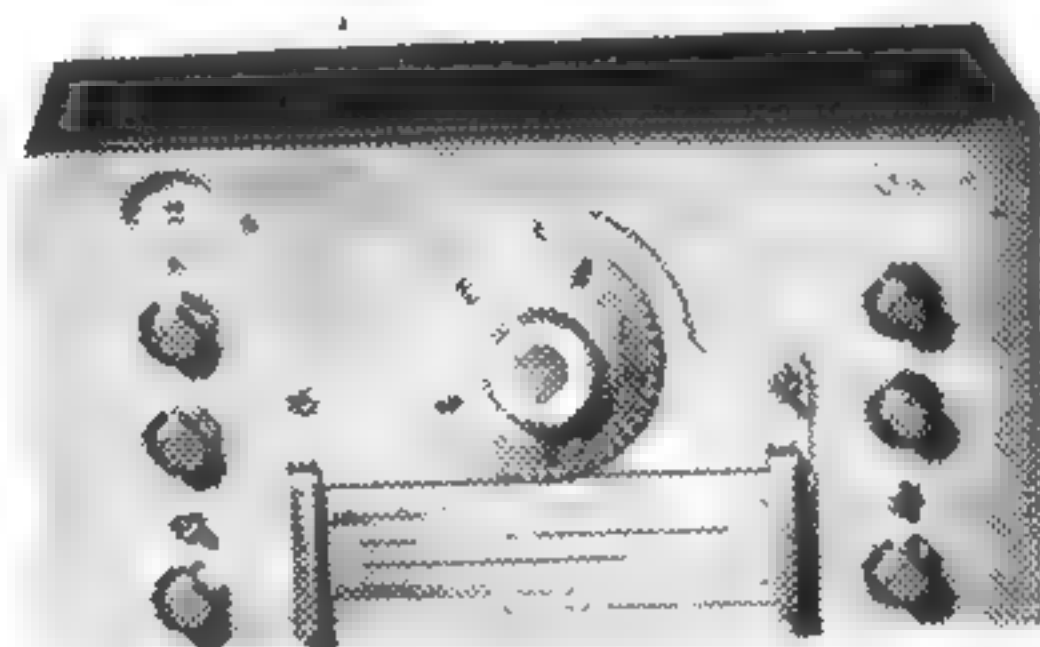
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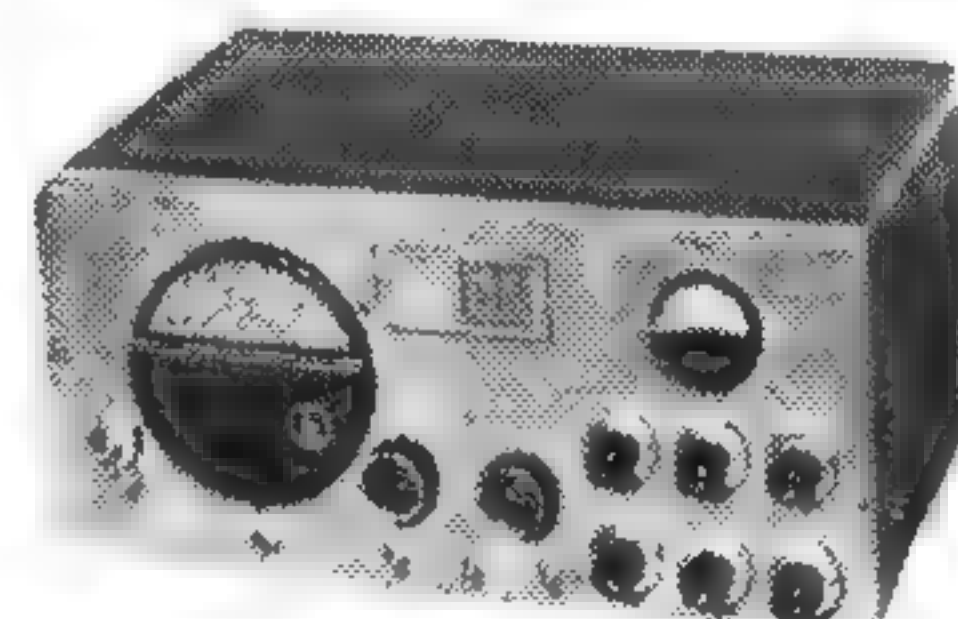
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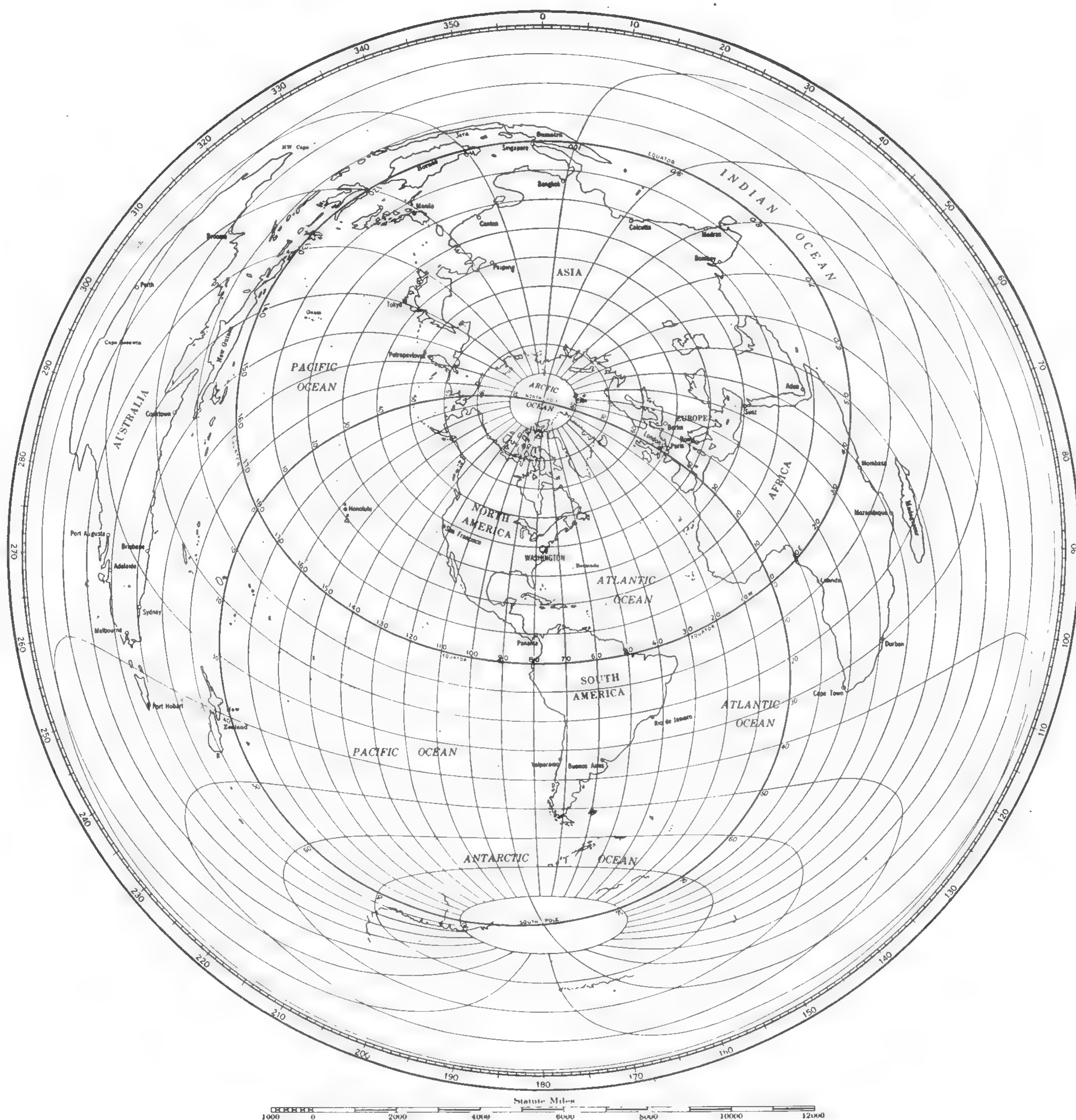
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# Great Circle Chart of the World Centered on WASHINGTON, D. C.

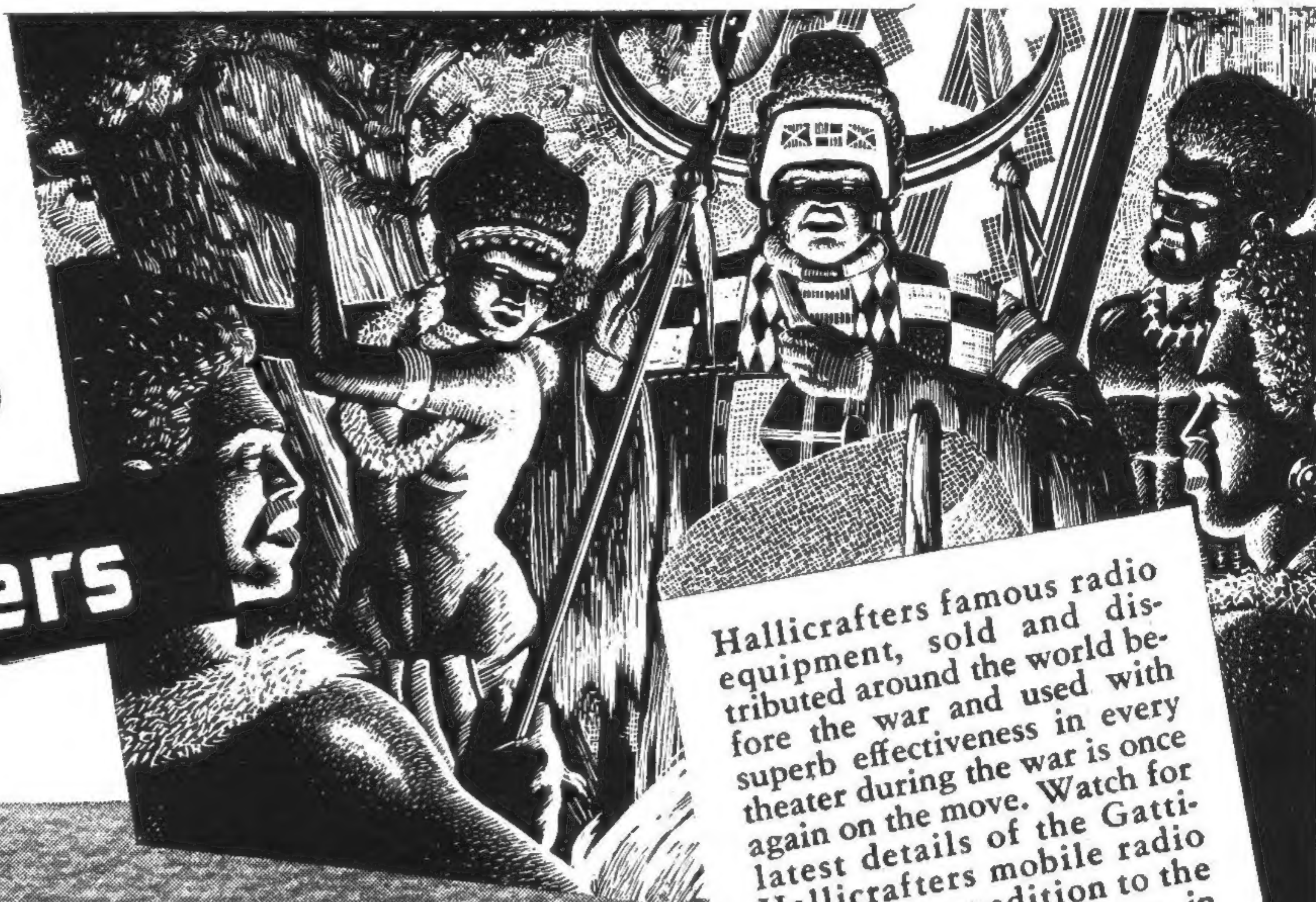


To find the great circle bearing of any point in the world from Washington, D. C., draw a straight line from the center and note the reading in degrees as indicated on the outer scale. The bar scale may be used to determine the approximate distance. This map was prepared by the Hydrographic Office of the U. S. Navy Department.



*Going places*  
(AGAIN)

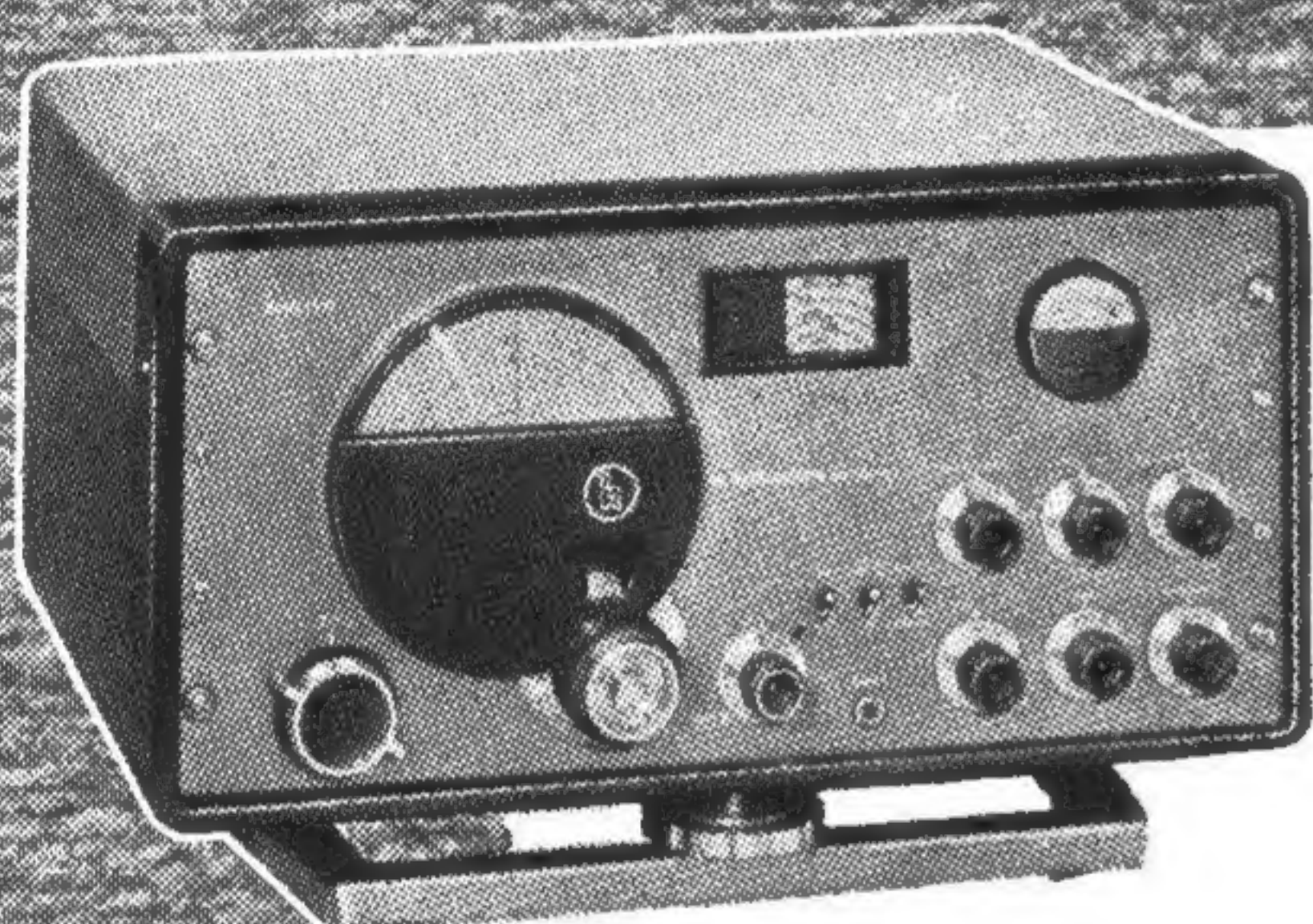
**hallicrafters**



Hallicrafters famous radio equipment, sold and distributed around the world before the war and used with superb effectiveness in every theater during the war is once again on the move. Watch for latest details of the Gatti-Hallicrafters mobile radio equipped expedition to the Mountains of the Moon in deepest Africa—a new and exciting test for the ingenuity of hams and the performance of Hallicrafters equipment.

**3**

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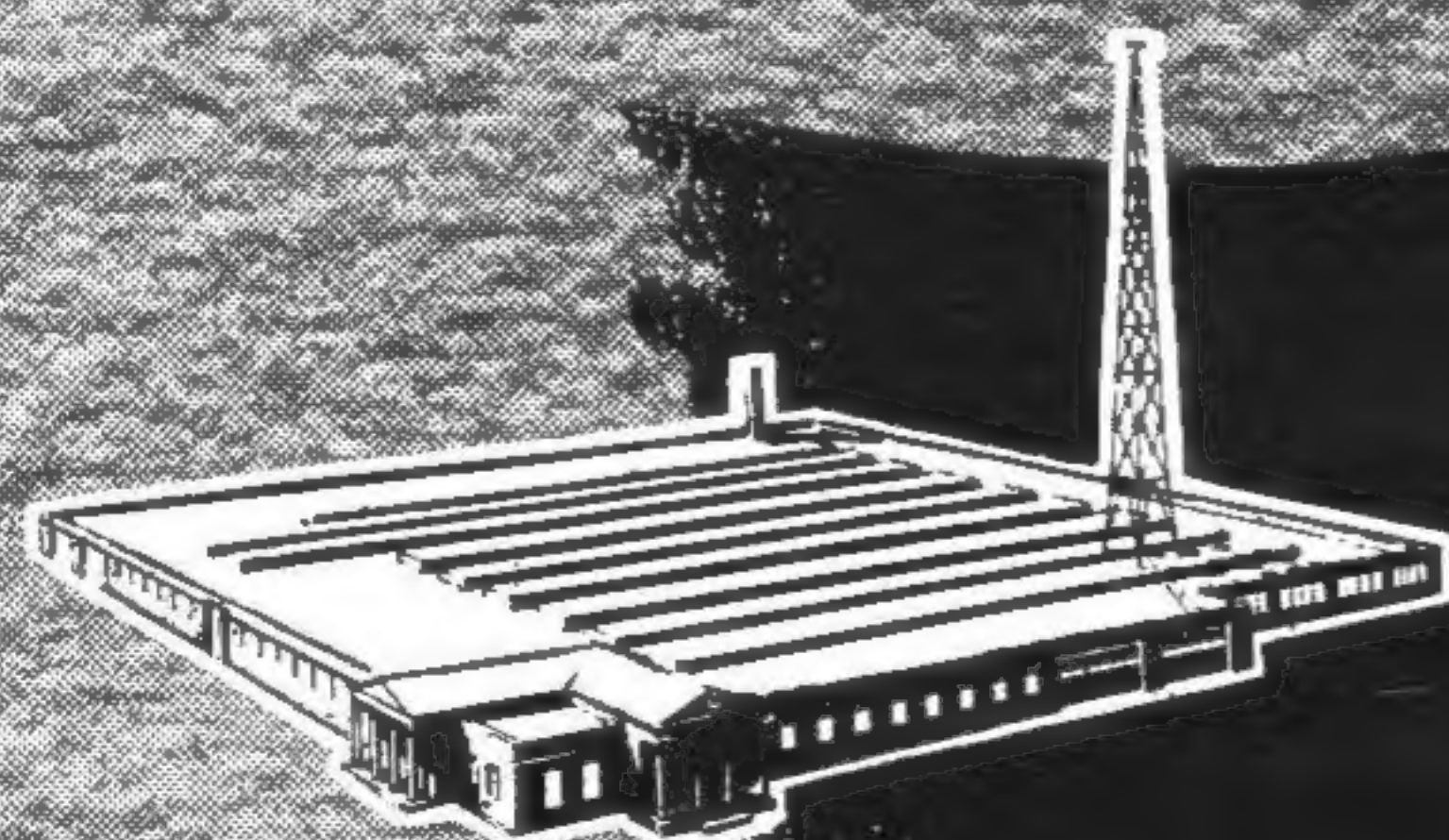
**Model SX-42** Described by hams who have operated it as "the first real postwar receiver." One of the finest CW receivers yet developed. Greatest continuous frequency coverage of any communications receiver—from 540 kc to 110 Mc, in six bands. FM-AM-CW. 15 tubes. Matching speakers available. **\$275<sup>00</sup>**



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**Model S-38** Overall frequency range from 540 kc to 32 Mc, in four bands. Self contained speaker. Compact and rugged, high performance at a low price. Makes an ideal standby receiver for hams. CW pitch control is adjustable from front panel. Automatic noise limiter. . . . . **\$47<sup>50</sup>**



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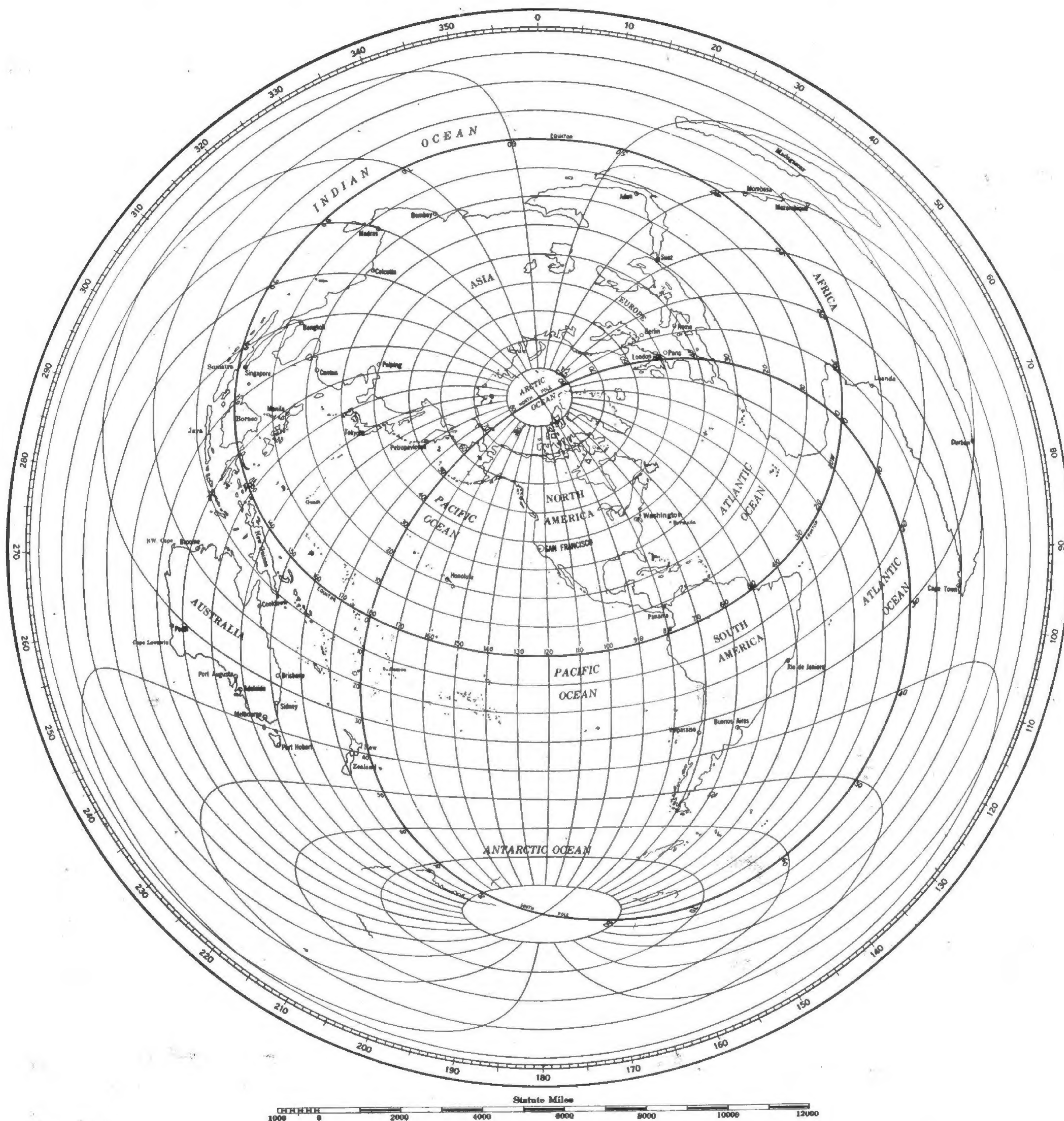
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# Great Circle Chart of the World Centered on SAN FRANCISCO, CALIFORNIA



To find the great circle bearing of any point in the world from San Francisco draw a straight line from the center and note the reading in degrees as indicated on the outer scale. The bar scale may be used to determine the approximate distance. This map was prepared by the Hydrographic Office of the U. S. Navy Department.



GREAT CIRCLE BEARINGS IN THE UNITED STATES

ATLANTA, GA.	264	322	47	24	25	301	343	15	86	269	297	320	7	271	310	251	347	145	306	281	281	347	154	345	331	321	234	48	64	48	278	27	318	296	289	308	48	84	WILMINGTON, N. C.		
BIRMINGHAM, ALA.	82	326	50	31	40	304	356	26	84	268	299	328	17	270	312	246	5	125	314	287	281	10	142	355	338	0	219	52	67	53	278	37	333	298	290	309	53	83	WASHINGTON, D. C.		
BISMARCK, N. D.	132	137	92	97	115	209	114	105	124	167	205	133	104	198	273	165	119	132	148	150	233	123	135	109	108	131	151	99	111	102	217	106	134	237	249	282	107	119	SAN FRANCISCO, CALIF.		
BOSTON, MASS.	236	241	291	277	247	278	273	267	226	254	275	275	274	262	293	246	263	220	268	253	273	256	207	278	286	249	237	235	219	118	160	134	261	199	248	276	276	293	159	174	SALT LAKE CITY, UTAH
BUFFALO, N. Y.	208	217	291	92	206	273	264	237	192	241	269	268	261	252	290	231	243	191	258	237	267	231	184	274	286	225	219	118	160	134	261	199	248	276	276	293	159	174	ST. LOUIS, MO.		
CHARLESTON, W. VA.	208	223	307	61	24	287	309	359	174	251	282	293	345	260	300	238	293	180	279	251	274	270	174	316	311	245	223	66	108	71	269	31	275	286	282	301	80	143	PHILADELPHIA, PA.		
CHEYENNE, WYO.	108	112	26	76	91	81	81	103	140	187	83	79	189	319	143	90	113	101	119	241	95	119	76	62	104	128	81	92	83	219	84	98	268	262	303	87	100	NORFOLK, VA.			
CHICAGO, ILL.	161	175	302	82	78	125	272	93	144	221	266	268	80	242	293	210	151	155	245	208	262	157	156	350	308	173	190	91	116	97	254	101	212	274	272	295	106	131	NEW YORK, N. Y.		
CLEVELAND, OHIO	197	209	297	80	55	179	277	277	176	240	272	275	310	252	293	228	245	180	261	235	268	226	175	290	296	219	214	95	136	105	262	127	250	278	277	296	124	156	NEW ORLEANS, LA.		
COLUMBIA, S. C.	268	267	317	41	10	354	299	329	356	270	295	311	350	271	308	256	326	189	300	279	282	320	174	331	323	297	246	39	53	37	279	7	305	295	290	307	33	85	NASHVILLE, TENN.		
DALLAS, TEXAS	81	82	349	57	49	61	325	36	50	80	319	15	45	266	325	157	47	97	15	61	280	55	112	32	11	65	115	60	71	61	277	55	40	308	291	315	63	80	MINNEAPOLIS, MINN.		
DENVER, COLORADO	103	107	22	73	72	87	6	75	77	99	134	74	74	189	325	138	84	109	91	112	246	90	116	70	55	98	124	78	88	80	224	80	91	283	267	308	83	96	LOS ANGELES, CALIF.		
DES MOINES, IOWA	134	144	318	80	78	105	271	84	87	123	197	262	81	231	297	187	105	135	197	171	257	116	141	69	5	133	165	87	104	91	247	92	137	273	270	296	97	115	KANSAS CITY, MO.		
DETROIT, MICH.	188	200	295	86	79	164	273	263	129	168	233	268	268	248	291	222	224	174	254	227	265	208	171	282	292	206	207	100	133	109	258	128	238	275	274	294	124	151	JACKSONVILLE, FLA.		
EL PASO, TEXAS	77	78	14	58	54	64	8	50	56	76	79	8	42	53	345	98	57	86	48	71	285	62	97	46	33	68	92	61	69	62	290	59	57	335	298	327	64	75	INDIANAPOLIS, IND.		
HELENA, MONTANA	112	116	85	84	88	100	133	97	93	108	134	141	105	92	162	136	101	115	115	122	203	105	119	94	91	111	127	89	98	92	180	94	109	179	224	283	95	104	MIAMI, FLORIDA		
HOUSTON, TEXAS	64	60	348	50	40	49	329	25	39	67	338	325	6	34	285	327	34	84	3	26	288	40	103	22	5	46	86	52	60	53	289	45	24	314	297	319	5	68	LOUISVILLE, KY.		
INDIANAPOLIS, IND.	166	185	308	72	58	110	281	332	62	143	234	276	290	41	250	298	220	157	267	226	267	168	158	338	316	188	199	80	107	85	261	80	251	281	277	298	94	127	MILWAUKEE, WIS.		
JACKSONVILLE, FLA.	327	309	324	33	9	1	308	339	0	8	286	304	323	355	282	314	273	340	314	300	288	338	163	341	332	326	271	29	34	28	287	8	323	303	295	312	23	39	KANSAS CITY, MO.		
KANSAS CITY, MO.	120	129	332	72	67	90	288	60	73	111	196	278	15	66	236	306	184	82	126	157	262	95	134	50	9	113	157	78	93	81	253	79	97	282	275	302	85	105	LITTLE ROCK, ARK.		
LITTLE ROCK, ARK.	97	104	335	59	48	65	307	26	48	92	243	300	352	41	260	315	208	43	114	338	276	55	128	21	356	71	158	62	76	64	271	56	22	297	286	309	67	89	LOS ANGELES, CALIF.		
LOS ANGELES, CALIF.	81	82	41	62	61	70	52	62	65	79	88	57	60	62	100	19	96	67	87	81																	78	LOUISVILLE, KY.			
LOUISVILLE, KY.	166	190	313	66	47	87	287	339	43	137	242	282	301	26	256	302	227	348	156	280	239	271	158	342	322	202	205	71	98	75	266	63	278	285	281	301	82	120	MIAMI, FLORIDA		
MIAMI, FLORIDA	337	326	329	22	3	355	313	342	356	355	302	310	329	353	291	318	290	342	345	321	315	293	341	342	335	334	298	18	16	15	293	1	330	308	299	315	11	13	MILWAUKEE, WIS.		
MILWAUKEE, WIS.	162	175	297	87	88	132	267	170	107	147	218	261	261	253	99	239	290	207	157	156	235	204	259	160	157	298	172	188	98	121	103	251	111	203	271	270	293	113	135	MINNEAPOLIS, MINN.	
MINNEAPOLIS, MINN.	145	154	291	91	96	123	248	125	108	135	193	242	184	105	227	283	186	132	144	189	175	248	137	146	114	148	169	99	116	104	237										

The above table shows the great circle bearing in degrees, of various metropolitan areas in the United States in relationship to each other. This table should be used from left to right only. To find the great circle bearing between any two of the cities shown, start at the left and follow the horizontal line to the right until you come to the column directly under the name of the city that you desire to beam a radio

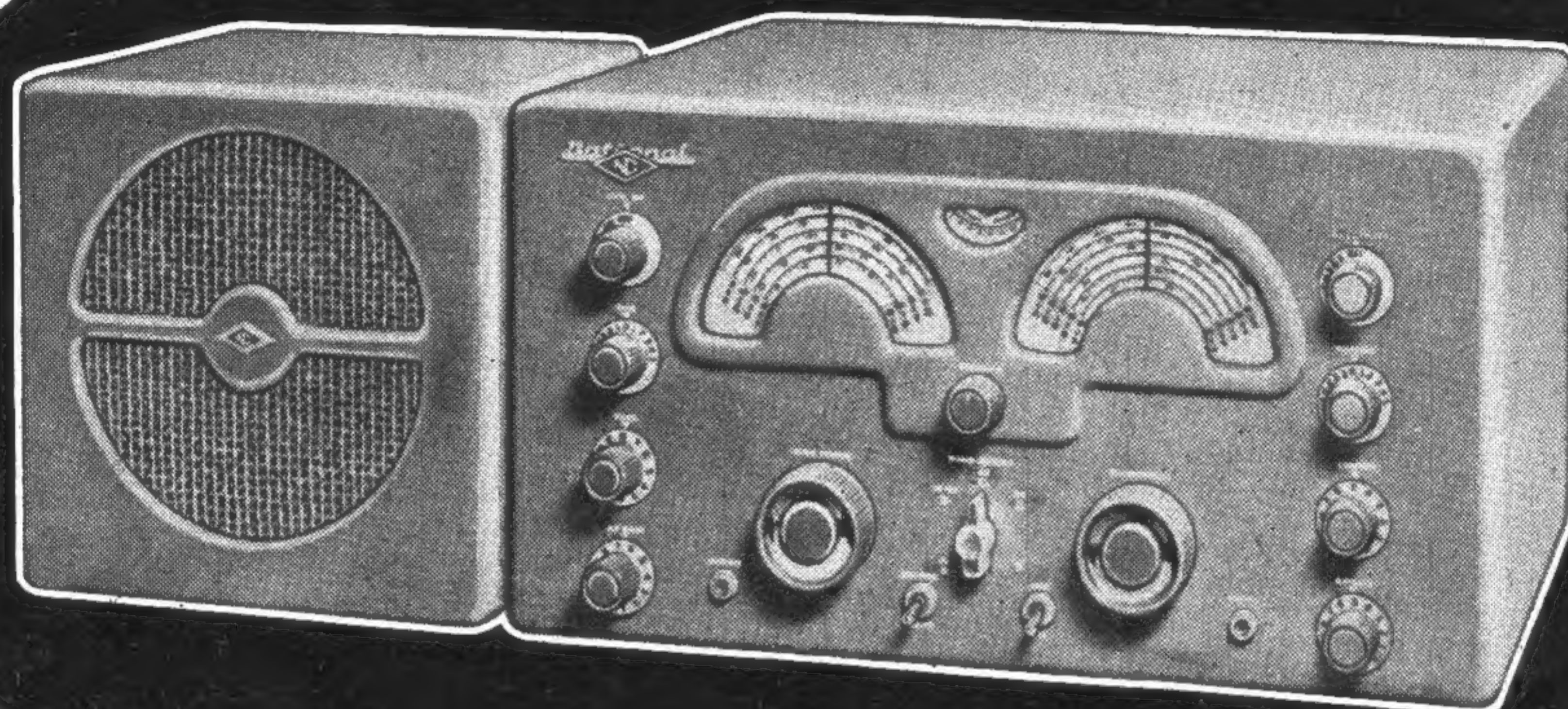
signal to. For all practical purposes in the United States, Polaris (the North Star), is due north. To find this star, to calibrate a directional radio beam, look for the first star on a straight line with the two outer stars on the outside edge of the cup of the big dipper. This table was compiled from information furnished by the U. S. Coast and Geodetic Survey. Copyright 1947, Radio Amateur Call Book, Inc.



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